CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, January 24, 1907.

CONTENTS

CONSTRUCTION NEWS:
Plans and Specifications on File 29
List of Contracts Pending 29
Railways 30
Electric Railways 30
Light and Power Plants 31
Bridges 32
Buildings 32
Water Supply and Irrigation 33
Sewerage 33
Garbage Disposal and Street Cleaning 33
Streets and Roads 34
Manufacturing Plants 34
Miscellaneous Contracts 35
U. S. Possessions and Cuba 35
Contract Prices 35
Mexico 35
Foreign Contracts and Export News 36
TRADE PUBLICATIONS 36
PROPOSALS 36

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Jan.				
*24	Traveling crane	W. Point, N.Y.	S. & B. S.	1-10
26	Crematory	Pensacola, Fla.	S. & B. S.	1- 3
*26	Sewers	Asbury, Park, N. J.	S.	1-24
Feb.				
1	Ordnance	Dover, N. J.	P., S. & B. S.	1-10
*4	Sewers	Cape Girardeau, Mo.	S. & B. S.	1- 3
4	Electric Railway	Bisbee, Ariz.	P., S. & B. S.	12-27
5	Boiler equipment	Phila., Pa.	S. & B. S.	1-17
9	Generator set	Philadelphia, Pa.	S.	1-10
*11	Barracks	Fort Hancock, N. J.	P., S. & B. S.	1-24
*13	Gravel road	Camden, N. J.	P., S. & B. S.	1-24
16	Wharves & dredging	Norfolk, Va.	S.	1-24
*18	Machine shop, etc.,	Ft. Hancock, N. J.	P., S. & B. S.	1-24
25	Lighting, etc.	Washington, D. C.	S. & B.S.	1-24
Mar.				
*1	Pipe, etc.	Winnipeg, Man.	S. & B. S.	1- 3
18	Sewers	Burlington, Iowa	P., S. & B. S.	1-10

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Jan. 25. Power plant, St. Louis, Mo. ..... Jan. 17
Jan. 29. Gas, Buffalo, N. Y. ..... Jan. 24
Jan. 30. Power building, Washington, D. C. ..... Jan. 3
Advertised, Eng. News, Jan. 3 to 24.
Jan. 31. Street lighting, Halifax, N. S. ..... Jan. 17
Feb. 1. Gas works, Richmond, Va. ..... Dec. 6
Advertised, Eng. News, Dec. 6.
Feb. 1. Electric supplies, Dover, N. J. ..... Jan. 24
Feb. 4. Conduit, Mobile, Ala. ..... Jan. 24
Feb. 4. Chimney, Jacksonville, Fla. ..... Jan. 24
Feb. 8. Lighting, East Liverpool, Ohio ..... Jan. 24
Feb. 15. Lighting, Rock Hill, S. C. ..... Jan. 17
Feb. 18. Power-house, Ft. Hancock, N. J. ..... Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 14.
Feb. 20. Transmission lines, Chicago, Ill. ..... Jan. 17
Feb. 25. Lighting, etc., Washington, D. C. ..... Jan. 24
Mar. 7. Lighting, Natchez, Miss. ..... Dec. 20
Advertised, Eng. News, Dec. 20 and 27.

BRIDGES.

Jan. 24. Drawbridge, Boston, Mass. ..... Jan. 17
Jan. 25. Bridge, Cincinnati, Ohio ..... Jan. 10
Jan. 29. Bridge, Chattanooga, Tenn. ..... Jan. 24
Jan. 30. Bridge, Des Moines, Iowa ..... Jan. 17
Jan. 31. Iron bridge, Hallock, Minn. ..... Jan. 10
Feb. 4. Filling bridge bed, Orwell, Ohio. ..... Jan. 24
Feb. 5. Bridges, Lincoln, Neb. ..... Jan. 24
Feb. 5. Bridges, Princeton, Ind. ..... Jan. 24
Feb. 5. Bridgework, Muscatine, Iowa ..... Jan. 24
Feb. 5. Bridges, Birmingham, Ala. ..... Jan. 24
Feb. 5. Bridge, Cohoes, N. Y. ..... Jan. 17
Advertised, Eng. News, Jan. 17 and 24.
Feb. 5. Bridges, Salinas, Cal. ..... Jan. 3
Feb. 7. Bridge, Lafayette, La. ..... Jan. 24
Feb. 8. Bridges, Hammond, Ind. ..... Jan. 3
Feb. 12. Bridge, Rock Island, Ill. ..... Jan. 24
Feb. 14. Steel bridge, Cullman, Ala. ..... Jan. 10
Advertised, Eng. News, Jan. 10.
Feb. 14. Steel bridge, Waldo, Ohio ..... Jan. 17
Feb. 15. Bridge woodwork, Cincinnati, Ohio ..... Jan. 24
Feb. 18. Bridge, Portersville, Cal. ..... Jan. 24

BUILDINGS.

Jan. 28. Station-house, New York, N. Y. ..... Jan. 17
Jan. 28. Ventilating, etc., New York, N. Y. ..... Jan. 17
Jan. 30. Marble base, New York, N. Y. ..... Jan. 17
Jan. 30. Building, Boston, Mass. ..... Jan. 17
Jan. 30. Post-office, Providence, R. I. ..... Jan. 3
Advertised, Eng. News, Jan. 3 and 10.
Jan. 30. Marble work, Washington, D. C. ..... Jan. 3
Advertised, Eng. News, Jan. 3 to 24.
Jan. 31. Heating, Crawfordville, Ind. ..... Dec. 27
Feb. 1. Factory, Kokomo, Ind. ..... Dec. 6
Feb. 1. Leper station, Hawaii ..... Jan. 24
Advertised, Eng. News, Jan. 24 to 31.
Feb. 4. Building materials, New York, N. Y. ..... Jan. 24
Feb. 4. Mess hall, etc., Washington, D. C. ..... Jan. 24
Advertised, Eng. News, Jan. 24.
Feb. 4. Court-house, New Orleans, La. ..... Dec. 27
Feb. 4. Storehouse, Ft. Monroe, Va. ..... Jan. 10
Advertised, Eng. News, Jan. 10 and 17.
Feb. 5. School, South Bend, Ind. ..... Jan. 17
Feb. 8. Library, University, N. Dak. ..... Nov. 15
Feb. 9. School, New Paltz, N. Y. ..... Jan. 24
Feb. 11. Barracks, Fort Hancock, N. J. ..... Jan. 10
Advertised, Eng. News, Jan. 10 to 31.
Feb. 18. Machine shop, etc, Ft. Hancock, N. J. ..... Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 14.
Feb. 25. Machinery, Ft. Hancock, N. J. ..... Jan. 24
Apr. 15. Plans, Ottawa, Ont. ..... Dec. 20

WATER SUPPLY AND IRRIGATION.

Jan. 24. Steel bars, Mitchell, Neb. ..... Dec. 13
Advertised, Eng. News, Dec. 13 to Jan. 3.
Jan. 25. Pipe valves, Minneapolis, Minn. ..... Jan. 17
Jan. 27. Ditch, Mattoon, Ill. ..... Jan. 17
Jan. 28. Pumping engines, Muskegon, Mich. ..... Dec. 20
Jan. 29. Boilers (Garbage), New York, N. Y. ..... Jan. 17
Jan. 30. Hydrants, etc., St. Paul, Minn. ..... Jan. 24
Jan. 30. Water meters, Chicago, Ill. ..... Jan. 24
Feb. 1. Cast-iron pipe, New York, N. Y. ..... Jan. 24
Feb. 1. Cast-iron pipe, Portland, Ore. ..... Jan. 24
Advertised, Eng. News, Jan. 24.
Feb. 2. Pipe, Washington, D. C. ..... Jan. 17
Advertised, Eng. News, Jan. 17 and 24.
Feb. 2. Artesian well, Asbury Park, N. J. ..... Jan. 24
Advertised, Eng. News, Jan. 24 and 31.
Feb. 4. Boilers, Jacksonville, Fla. ..... Jan. 17
Feb. 4. Pump, Asbury Park, N. J. ..... Jan. 24
Advertised, Eng. News, Jan. 24.
Feb. 5. Boiler equipment, Philadelphia, Pa. ..... Jan. 17
Feb. 7. Boiler plant, Yonkers, N. Y. ..... Jan. 24
Advertised, Eng. News, Jan. 24.
Feb. 7. Cast-iron pipe, Yonkers, N. Y. ..... Jan. 24
Advertised, Eng. News, Jan. 24.
Feb. 9. Cast-iron pipe, Washington, D. C. ..... Jan. 24
Advertised, Eng. News, Jan. 24 and 31.
Feb. 14. Steel tank and tower, Milaca, Minn. ..... Jan. 24
Feb. 18. Pumping plant, water pipe, etc., Natal (Foreign) ..... Jan. 24
Feb. 19. Reservoirs, etc., Oswego, Kan. ..... Jan. 17
Feb. 20. Water meters, Mexico ..... Jan. 10
Feb. 27. Dike, Crawford, Neb. ..... Jan. 17
Advertised, Eng. News, Jan. 17 to Feb. 20.
Mar. 1. Pipe and specials, Winnipeg, Man. ..... Dec. 20
Advertised, Eng. News, Dec. 20 to Feb. 21.
Mar. 5. Canals and ditches, Washington, D. C. ..... Jan. 10
Advertised, Eng. News, Jan. 10 to Feb. 14.
Mar. 12. Canals, Huntley, Mont. ..... Jan. 17
Advertised, Eng. News, Jan. 17 to Feb. 7.

SEWERAGE.

Jan. 24. Sewers, Cincinnati, Ohio ..... Jan. 10
Jan. 25. Sewers, Cincinnati, Ohio ..... Jan. 10
Jan. 25. Sewer material, Minneapolis, Minn. ..... Jan. 17
Jan. 26. Sewers, Asbury Park, N. J. ..... Jan. 17
Advertised, Eng. News, Jan. 17 and 24.
Jan. 26. Sewer, Hart, Mich. ..... Jan. 17
Jan. 26. Drains, Greenfield, Ind. ..... Jan. 3
Jan. 28. Sewer, New York, N. Y. ..... Jan. 17
Jan. 29. Sewers, New York, N. Y. ..... Jan. 24
Jan. 29. Sewer, Findlay, Ohio ..... Jan. 24
Jan. 30. Sewer system, St. Marys, Ohio. ..... Jan. 17
Jan. 30. Sewers, Norristown, Pa. ..... Jan. 10
Feb. 1. Sewer, Marion, Ohio ..... Jan. 17
Feb. 4. Sewer, New York, N. Y. ..... Jan. 24
Feb. 4. Sewer, Cape Girardeau, Mo. ..... Dec. 20
Advertised, Eng. News, Dec. 20 and 27.
Feb. 14. Sewers, Decatur, Ill. ..... Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 7.
Feb. 16. Sewers, Charleston, W. Va. ..... Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 14.
Feb. 17. Sewers, Cincinnati, Ohio ..... Jan. 24
Feb. 19. Sewers, Cairo, Ill. ..... Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 14.
Feb. 21. Drains and ditches, Fort Dodge, Iowa ..... Jan. 24
Mar. 18. Sewers, Burlington, Iowa ..... Dec. 27
Advertised, Eng. News, Dec. 27.

STREETS AND ROADS.

Jan. 24. Grading, etc., Indianapolis, Ind. ..... Jan. 17
Jan. 25. Asphalt paving, Cincinnati, Ohio ..... Jan. 17
Jan. 25. Paving material, Minneapolis, Minn. ..... Jan. 17
Jan. 28. Grading, etc., East St. Louis, Ill. ..... Jan. 17
Jan. 28. Sidewalks, etc., New Orleans, La. ..... Jan. 24
Jan. 29. Paving, etc., New York, N. Y. ..... Jan. 24
Jan. 29. Brick paving, Bartlesville, Ind. T. ..... Jan. 17
Jan. 29. Cement sidewalk, Bessemer, Ala. ..... Jan. 17
Jan. 29. Paving, Bartlesville, Ind. T. ..... Jan. 3
Jan. 31. Paving, Cincinnati, Ohio ..... Jan. 17
Jan. 31. Grading, etc., New York, N. Y. ..... Jan. 24
Feb. 1. Gravel road, Princeton, Ind. ..... Jan. 17
Feb. 2. Macadamizing, Cincinnati, Ohio ..... Jan. 24
Feb. 4. Gravel road, Spencer, Ind. ..... Jan. 24
Feb. 4. Macadam, Knox, Ind. ..... Jan. 24
Feb. 4. Macadam, Greencastle, Ind. ..... Jan. 24
Feb. 4. Gravel road, Indianapolis, Ind. ..... Jan. 24
Feb. 5. Gravel road, Petersburg, Ind. ..... Jan. 24
Feb. 5. Paving, Winchester, Ind. ..... Jan. 24
Feb. 5. Macadamizing, Bloomfield, Ind. ..... Jan. 17
Feb. 5. Macadamizing, Somerville, N. J. ..... Jan. 10
Advertised, Eng. News, Jan. 10 to 24.
Feb. 6. Gravel road, Logansport, Ind. ..... Jan. 17
Feb. 6. Paving, grading, etc., New York, N. Y. ..... Jan. 24
Feb. 7. Gravel road, Brazil, Ind. ..... Jan. 24
Feb. 7. Gravel road, Vincennes, Ind. ..... Jan. 24
Feb. 7. Gravel road, Brazil, Ind. ..... Jan. 24
Feb. 7. Paving and curbing, Cincinnati, Ohio. ..... Jan. 24
Feb. 7. Brick paving, Denison, Tex. ..... Jan. 17
Feb. 8. Improving alleys, St. Louis, Mo. ..... Jan. 24
Feb. 12. Macadam curb, Bogota, N. J. ..... Jan. 10
Advertised, Eng. News, Jan. 10 to 24.
Feb. 12. Gravel road, Peterburg, Ind. ..... Jan. 24
Feb. 13. Gravel road, Camden, N. J. ..... Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 7.
Feb. 15. Repairing road, Cincinnati, Ohio ..... Jan. 24
Feb. 15. Paving, Tulsa, Ind. T. ..... Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 14.
Feb. 18. Paving, Newburgh, N. Y. ..... Jan. 24
Advertised, Eng. News, Jan. 24 and 31.
Feb. 28. Paving, Corning, N. Y. ..... Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 7.
Mar. 1. Improving streets, Corvallis, Ore. ..... Jan. 10
Mar. 8. Curbs and gutters, Valparaiso, Ind. ..... Jan. 17

MISCELLANEOUS CONTRACTS.

Jan. 24. Traveling crane, West Point, N. Y. ..... Jan. 3
Advertised, Eng. News, Jan. 3 to 17.
Jan. 24. Jetty, New York, N. Y. ..... Jan. 10
Jan. 25. Garbage disposal, St. Louis, Mo. ..... Jan. 3
Jan. 26. Crematory, Pensacola, Fla. ..... Jan. 3
Jan. 28. Dredging, New York, N. Y. ..... Jan. 17
Jan. 29. Engineering supplies, Panama ..... Jan. 17
Jan. 29. Piers, North Chicago, Ill. ..... Dec. 13
Jan. 29. Lumber, New York, N. Y. ..... Jan. 24
Jan. 29. Rubber hose, New York, N. Y. ..... Jan. 24
Jan. 30. Sprinkling, St. Louis, Mo. ..... Jan. 24
Jan. 31. Bulkhead, New York, N. Y. ..... Jan. 10
Jan. 31. Ry. roadbed, Cairo & Thebes Ry. ..... Jan. 17
Advertised, Eng. News, Jan. 17 and 24.
Feb. 1. Steam roller, Holyoke, Mass. ..... Jan. 17
Advertised, Eng. News, Jan. 17 and 24.
Feb. 1. Canal, Servia (Foreign) ..... Jan. 17
Feb. 1. Ordnance, Dover, N. J. ..... Jan. 10
Feb. 1. Wooden launches, New York, N. Y. ..... Jan. 24
Feb. 4. Grading electric railway, Bisbee, Ariz. ..... Dec. 27
Feb. 5. Naval supplies, Washington, D. C. ..... Jan. 3
Feb. 5. Naval supplies, San Francisco, Cal. ..... Jan. 3
Feb. 5. Tunnel, Boston, Mass. ..... Jan. 24
Feb. 6. Tug, Washington, D. C. ..... Jan. 10
Feb. 8. Spillway, San Francisco, Cal. ..... Jan. 10
Advertised, Eng. News, Jan. 10 to 31.
Feb. 11. Railway, Spain (Foreign) ..... Dec. 6
Feb. 11. Undergrade crossing, Williamsport, Pa. ..... Jan. 17
Advertised, Eng. News, Jan. 17.
Feb. 12. Lock gate, Chattanooga, Tenn. ..... Jan. 17
Advertised, Eng. News, Jan. 17 to 31.
Feb. 13. Dredging, New York, N. Y. ..... Jan. 17
Advertised, Eng. News, Jan. 17 to Feb. 7.
Feb. 13. Ry. construction, Temiskaming & Northern Ohio Ry. ..... Jan. 17
Feb. 14. Ry. construction, Trans-Continental Ry. ..... Jan. 17
Feb. 15. Lock and dam, Mobile, Ala. ..... Jan. 17
Advertised, Eng. News, Jan. 17 to Feb. 7.
Feb. 16. Timber, wharves, etc., Norfolk, Va. ..... Jan. 24
Feb. 16. Dredging, Norfolk, Va. ..... Jan. 24
Feb. 19. Hydraulic dredge, Toronto, Ont. ..... Jan. 17
Advertised, Eng. News, Jan. 17 to 31.
Feb. 25. Monument, New York, N. Y. ..... Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 21.
Mar. 1. Garbage removal, Adrian, Mich. ..... Jan. 24
Mar. 18. Tunnel, New Zealand (Foreign) ..... Sept. 13
Advertised, Eng. News, Sept. 13 to Mar. 14.
Mar. 27. Dredging, New Orleans, La. ..... Jan. 24
Advertised, Eng. News, Jan. 24 and 31.
Apr. 2. Reclamation work, British India (Foreign). ..... Jan. 17
Apr. 12. Ditches, Brookings, S. Dak. ..... Oct. 13
No date. R. R. supplies, Council City & Solomon River R. R. ..... Jan. 24

CIVIL SERVICE EXAMINATIONS.

Jan. 29. Computer, Washington, D. C. ..... Jan. 3
Jan. 29. Arch. Draftsman, New York, N. Y. ..... Jan. 17
Jan. 26. Arch. Draftsman, Albany, N. Y. ..... Jan. 17
Jan. 26. Bridge Designer, Albany, N. Y. ..... Jan. 17
Feb. 6. Examiner of Surveys, Washington, D. C. ..... Jan. 17
Feb. 18. Marine Engineer, San Francisco, Cal. ..... Jan. 17
Feb. 20. Electrician, San Francisco, Cal. ..... Jan. 17

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ALEXANDER & EASTERN.—This is the new name of the Alexander & Rich Mountain Railway, which has 18 miles of line from Alexander, W. Va., to Long Run Junction, including a ¾-mile branch up Long Run and a ½-mile branch up the left fork of Buckhannon River. The road is operated only for freight traffic.

ARIZONA & CALIFORNIA (Atchison, Topeka & Santa Fe).—W. A. Drake, Ch. Engr., Prescott, Ariz., advises us that this line has been located from the Colorado River to Bengal, Cal., 92 miles, but no further action has been taken toward construction.

ARKANSAS VALLEY (Atchison, Topeka & Santa Fe).—The Arkansas Valley has given contracts to THOMAS MISHON & CO., of Pueblo, Colo., and to WILLIAM C. WHITES-CARVER, of Trinidad, Colo., for extending its road from its present terminus at Bristol, Colo., to Lays Junction, 17½ miles, and from Bent to Columbine, 41 miles.

BAUXITE & NORTHERN.—E. C. Sargent, Ch. Engr., Bauxite, Ark., advises us that contract for building line from Bauxite north to point of intersection of the St. Louis, Iron Mountain & Southern Ry., 2½ miles long, has been let to the DALHOFF CONSTRUCTION CO., of Little Rock, Ark. Right-of-way and capital are secured and surveys are made. R. B. Mellon is Pres., Pittsburg, Pa.

BIG FORK & INTERNATIONAL FALLS.—This company, recently incorporated, has begun work on an extension of the Minnesota & International from Big Falls, Minn., to International Falls, a distance of 35 miles. DEMPSEY & DOUGHERTY, Globe Bldg., Minneapolis, have the contract. E. W. Backus is Pres., Andrus Bldg., Minneapolis, Minn.; W. F. Brooks, Vice-Pres. and Treas., Minneapolis; George M. Huss, Ch. Engr., Big Falls, Minn.

BOSTON & ALBANY.—This company has under consideration the extension of its present system of four tracks from Lake Crossing to South Farmington, Mass., a distance of about five miles, it is said. Four tracks are now under operation from Boston to Lake Crossing, a distance of 16 miles, and two tracks from Lake Crossing westward to the Hudson River.

BURNSIDE & CUMBERLAND RIVER.—Citizens of Monticello, Ky., are reported to have subscribed $40,000 toward building the first 22 miles of the proposed Burnside & Cumberland River Railroad, which will extend from a connection with the Tennessee Central, via Monticello and Somerset, to Corbin, Ky. It is said that other financial arrangements have been made and construction will begin soon. James Denton is Attorney, at Centerville, Ky.

CANADIAN PACIFIC.—Track was laid on branches and extensions of this system as follows during 1906: From Highlands to the Canada sugar refinery, six miles; from Staynerville to Brunet's quarry, four miles; from Nipissing Junction to Temagami Co.'s mills, three miles; from Guelph to Blyth, Ont., 63.4 miles; from Bolton Junction to Craighurst, 52 miles; from Winnipeg Beach to Gimli, nine miles; on Wolseley-Reston branch, from milepost 60 to milepost 122, a distance of 62 miles; from Teulon to Komamo, eight miles; on line from Strassburg north from milepost 202 to milepost 219, a distance of 17 miles; on Pheasant Hills branch, from milepost 345 west to milepost 360, a distance of 15 miles; from Moose Jaw northwest, 17 miles; on Wetaskiwin branch, from milepost 50 east to milepost 96, a distance of 46 miles. The following extensions are in progress: Pheasant Hills branch, from milepost 219 to Saskatoon, 109 miles, and from milepost 360 to Battle River, 190 miles; from Sheho northwest, milepost 42 to milepost 79, a distance of 37 miles; from Moosejaw northwest, milepost 17 to milepost 50, a distance of 33 miles; from Stoughton to Weyburn, 37 miles; on Broomhill branch, from milepost 20 to milepost 27, a distance of seven miles; on Kootenay Central, Golden, B. C., south, five miles; from Komamo, milepost 45 to milepost 57, a distance of twelve miles; from Walkerton to Proton, 38 miles; from Linwood to Listowell, 16 miles; making a total of 490 miles of new line under construction.

CINCINNATI & BIRMINGHAM AIR LINE.—We are officially advised that this company has purchased the Ohio & Gulf. Coal and timber lands along the line of the proposed railway have been secured also. Engineers are in the field now. "This road will have very low grades and light curvatures, 80-lb. steel rails, steel bridges, white-oak ties and stone ballast. It is to be built for heavy tonnage, principally coal, iron ore and timber. Coal operators are contemplating opening mines along this line. The contract for the construction of the road will be let shortly." J. H. Connor, Steger Bldg., Nashville, Tenn., is Pres. and Gen. Mgr. The road is planned to run from Paintsville, Ky., which is the terminus of the Norfolk & Western and the Chesapeake & Ohio, to Jeff, Ala. The total length will be about 420 miles.

DELAWARE & HUDSON.—Company will construct a rectangular engine-house and other conveniences on the east side of the Albany-Troy road, just north of the Albany, N. Y., city line. The proposed building will be 260 × 240 ft., extending nearly due east and west, and will contain 38 stalls, with a transfer table running through it in the middle lengthwise. A turn-table measuring about 76 ft. in length will be located just south of the engine-house. A cinder pit will be constructed where six engines may be accommodated at one time. Two wooden water tanks with capacity of 50,000 gallons each, also will be erected. A mechanical coaling station, measuring about 75 ft. in height and with a capacity of 400 tons, will be built. This structure will be of the latest type, the coal being elevated by a moving chain of buckets and the engines will be coaled directly through chutes from the bins. The old signal works building, near this location, will be transformed into a coach paint-shop, and will be used also for the storage of coaches. It is reported that the company intends to expend over $200,000 on this improvement. James MacMartin, Albany, N. Y., is Ch. Engr.

COUNCIL CITY & SOLOMON RIVER.—Bids are asked by this company for the following supplies: 10,500 tons steel rails, 60-lb. standard, 30 ft. (new or second-hand), fishplates, bolts, spikes; 270,000 railroad ties, 8 ft. × 9 ins. × 7 ins.; 20,000 lin. ft. trestle timber, assorted sizes, 10 ins. × 12 ins., 12 ins. × 12 ins., and 10 ins. × 18 ins., and assorted lengths from 15 to 38 ft.; 96,000 lin. ft. piling, in assorted lengths, 20 to 60 ft., 10 to 14-in. tops and 16 to 20-in. butts; 360,000 ft., B. M., 3 ins. × 12 ins., 16 to 40 ft. lengths, for sheet piling; one standard car pile-driver (new or rebuilt), self-propelling, with steam hammer, rigged for battering piles, for pier construction work. Supplies are deliverable June or July at railroad terminal on beach above high water, mouth of Solomon River, Seward Peninsula, Alaska. A. D. Keep, Secy. and Purchasing Officer, 5 Nassau St., New York.

DELAWARE & HUDSON.—The State Railroad Commission has issued an order permitting the United Traction Co., of Albany, N. Y., and the Delaware & Hudson Co. to put in a derailing system at the Ontario St. crossing in Cohoes, N. Y. Gates are to be operated from a tower and no watchman will be employed at the crossing. This crossing was regarded as very dangerous.

GRAND TRUNK.—A press report from Toronto, Ont., states that the Grand Trunk Ry. Co. will construct a line from Port Union to the River Don, where the company has purchased a site for a pleasure resort.

This company has decided to build a branch line from Ottawa to Kingston, Ont.

Company may spend about $250,000 improving its terminals, and extending its repair-shop at Stratford, Ont. The work also includes the building of a new station.

Company has applied for permission to double-track its line from Port Union to Toronto, Ont., building a cut-off to save heavy grades. The work will cost $10,000,000. Joseph Hobson is Ch. Engr., Montreal, Que.

GRAYS HARBOR & PUGET SOUND.—This line has been located from Aberdeen and Hoquiam to Centralia, Wash., 75 miles, and construction has been commenced. The officers are: A. J. West, Pres., Aberdeen, Wash.; J. B. Bridges, Counsel, Aberdeen; W. J. Patterson, Treas. and Gen. Mgr., Aberdeen; J. M. Clapp, Ch. Engr. and Auditor, Seattle, Wash.; J. F. Richards, Pur. Agt. and Assistant Auditor, Aberdeen.

GREENWICH & JOHNSONVILLE.—The State Railroad Commission has rendered a decision that the Main St. extension crossing of the Greenwich & Johnsonville R. R., at the village of Greenwich, N. Y., shall be carried over the street on a steel structure. The under crossing will be 38 ft. wide and the clearance from street to lowest part of the bridge will be 10 ft. Also, the company must construct a bridge to carry its line over Eddy St., in the same village, the under crossing to be 48 ft. wide. C. B. Vorce is Ch. Engr., Greenwich.

GULFPORT & NORTHWESTERN.—We are officially advised that the Edward Hines Lumber Co., of Chicago, probably will build this line itself, beginning about Feb. 15. The railroad will extend from the anchor basin at Gulfport, Miss., northwest to Poplarville, 47 miles. Right-of-way is nearly all secured. Surveys have been run. Capital is ready. Noted fully on Dec. 13.

HOLSTON RIVER.—This road is under construction from a connection with the Virginia & Southwestern Railway at the Virginia-Tennessee State line to Persia, Tenn., a distance of 31½ miles. Grading is well advanced, and it is expected to begin tracklaying soon. E. S. Fraser is Ch. Engr., Bristol, Tenn.

ILLINOIS CENTRAL.—A. S. Baldwin, Ch. Engr., Chicago, advises us that contracts have not been awarded for elevation of company's tracks from 67th St. to 86th St., Chicago, 2.27 miles in length. Surveys have been made. Noted on Dec. 6.

INTERCOLONIAL.—Company will invite bids soon for motor cars to be used on its branch lines in Prince Edward Island. D. Pottinger is Gen. Mgr., Moncton, N. B.

We have been advised by William B. MacKenzie, Ch. Engr., Moncton, N. B., that the Intercolonial, from St. John to Hampton, 22½ miles, and from Moncton to Painsec, 7½ miles, will be double-tracked. Contracts will be let as soon as the Dominion Parliament votes money for expenses.

KANSAS CITY, LAWTON & PACIFIC.—Contracts have been given to R. F. KING, of Ada, Ind. T., and to W. T. SHERWIN, of Pauls Valley, Ind. T., for building this line from Wagoner, Ind. T., southwest to Lawton, Okla., 250 miles, and from Wewoka, Ind. T., east to Dustin, 30 miles. E. A. Hill is Asst. Gen. Mgr., 401 Odd Fellows' Bldg., St. Louis, Mo.

KANSAS CITY, MEXICO & ORIENT.—Work under construction for which contracts have been given to the UNION CONSTRUCTION CO. and the INTERNATIONAL CONSTRUCTION CO., of Kansas City, Mo., includes the following: Clinton, Okla., to Knox City, 152 miles; Sweetwater, Tex., to San Angelo, 75 miles; Aguatos, Mex., to Los Tascates, 62 miles, and from Elfuerto, Mex., to Lajunta, 55 miles; a total of 244 miles.

KLONDIKE MINES.—T. W. O'Brien, Dawson, Yukon T., states that this road is now completed from Dawson to Sulphur Springs, Yukon T., 31½ miles, and that it is proposed to extend its line from Sulphur Springs to the Stewart River, 70 miles. It is expected to complete 45 miles of this extension during the present year.

LAS VEGAS & TONOPAH.—Contracts let to DEAL BROS. & MENDENHALL for an extension from Rhyolite, Nev., north to Goldfield, 76 miles. Noted on Dec. 27.

LITTLE ROCK, MAUMELLE & WESTERN.—Incorporated in Arkansas to build a railroad from Little Rock northwest to Maumelle, about 25 miles. Capital stock, $250,000. Incorporators: A. J. Niemeyer, St. Louis, Pres.; E. B. Kinsworthy, Little Rock, Vice-Pres.; A. C. Becker, Secy.; C. C. Rose, Sam W. Reyburn, Frank Niemeyer, S. C. Bossinger, T. H. Bunch, Charles McKee and H. L. Remmel.

LOUISIANA.—At Natchitoches, La., a citizens' meeting has offered to subscribe $30,000 for the building of a railroad by the Louisiana Long Leaf Lumber Co., the line to be built from Fisher, La., via Victoria, to Natchitoches. J. H. Williams is Chn., and A. E. Ewing is Secy.

MACOMB & WESTERN ILLINOIS.—W. A. Compton, Pres., Macomb, Ill., states that this company built no line during 1906, but that it is proposed to extend the road during the present year from Littleton to Mt. Sterling, Ill., 30 miles.

MANILA & SOUTHWESTERN.—W. M. Kerr, Ch. Engr., Jonesboro, Ark., reports that track has been laid on this road from Culberhouse to Lunsford, Ark., five miles, and that work is in progress from Lunsford to Hancock, 12½ miles. An extension is proposed from Hancock to Manila, 6½ miles.

MISSOURI PACIFIC.—During the past year the Gurdon & Fort Smith branch has been completed from a connection with the Arkansas Southwestern Railway, one-half mile east of Antoine, Ark., to a point near Caddo Gap, a distance of about 30 miles. No track has been laid on the Gurdon & Fort Smith Northern. The extension of the St. Louis, Iron Mountain & Southern from Eudora, Ark., to Gilbert, La., has been completed from Eudora to Calvit, La., 34.47 miles. On the Wabash Southern track has been laid from Zeigler, Ill., northeast towards Benton, about five miles, and a branch of the Coal Belt Railroad has been built to White Ash, Williamson County, Ill., 2.54 miles. The Herrin & Johnson City has been built from a connection with the Coal Belt Railway near Herrin, Ill., east to Johnson City, a distance of 3.86 miles. E. F. Mitchell is Engr. of Construction, St. Louis, Mo.

NORTHWESTERN.—The UTAH CONSTRUCTION CO., of Ogden, Utah, has been awarded the contract for building the first 60 miles of this road from Huntington, Ore., along the Snake River to Lewiston, Idaho. The road will run through Baker, Union and Wallowa Counties in Oregon, and Nez Perces County in Idaho. The road is being built by the Oregon Short Line, of which W. H. Bancroft, Salt Lake City, Utah, is Vice-Pres. and Gen. Mgr., and William Ashton is Ch. Engr.

OKLAHOMA CITY, HENRYETTA & ST. LOUIS.—Surveys have been made for the proposed road from Oklahoma City, Okla., to Henryetta, Ind. T. The STATEHOOD CONSTRUCTION CO., of Oklahoma City, has the contract to build the line. The company was incorporated several years ago to build a road from Oklahoma City to Checotah, Ind. T., 280 miles. The officers are: Pres., J. H. Dibble; Vice-Pres. and Treas., J. H. Wheeler; Secy., J. W. Pryer; Gen. Counsel, J. W. Shartel. The officers of the Statehood Construction Co. are: R. T. Edwards, Pres.; R. H. Gardner, Secy.; and J. H. Wheeler, Treas.

PANAMA CONSTRUCTION CO.—Orville G. Wales, Pres., 518 Reaper Block, Chicago, advises us that this company will build a steam road from Wolcottville, Ind., to Panama, eight miles. Surveys are partly made and right-of-way is being secured. A cement plant will be constructed in connection with the railroad.

SOUTHERN PACIFIC.—The annual report of this company contains the following information in regard to the construction of extensions on various portions of the system: Louisiana Western, under construction and partly graded from Eunice to Mamou, La., 16.4 miles; Inter-California Railway, a continuation of the main line from Calexico to Yuma, Ariz., a distance of about 55 miles, is in course of construction; about 15 miles are completed and work on the remaining 40 miles is progressing; Coast Line Railway; this company was organized to build a line northward from Santa Cruz, Cal., about twelve miles in length. About three miles are completed and work on the remaining nine miles is progressing. Southern Pacific Railroad; this company is building the following branch lines: From San Ramon to Pleasanton, Cal., about ten miles, which, when completed, will connect the San Ramon branch with the main line at Pleasanton; from San Francisco to San Bruno, about ten miles, which will avoid the heavy grades on the coast line out of San Francisco, and will lessen by about four miles the distance by the old line; and from Wyo (Orland post-office) to Hamilton (Biggs post-office), about eleven miles in length, which was completed and put in operation on Oct. 15, 1906. Sacramento Southern Railroad; this company was organized to build a line southward from Sacramento to Walnut Grove, Cal., about 28 miles, in order to furnish a rail outlet for fruits and vegetables grown in the lower Sacramento Valley. About 24 miles of this line are graded and the grading of the remainder is nearing completion. California Northeastern Railway; this company was organized to build a line from Weed, Cal., a point on the Central Pacific Railway, to Klamath Falls, Ore., about 80 miles. About 25 miles are completed and the grading on the remainder is nearing completion. Oregon Western Railway; this company was organized to build a line from Drain, in the Willamette Valley, to Marshalfield on Coos Bay, Ore., about 82 miles in length. About 20 miles are completed and work on the remainder is progressing. Oregon Eastern Railway; this company was organized to build a line southeastward from Natron to Klamath Falls, Ore., about 152 miles, where connection is eventually to be made with the California Northeastern Railway, thus furnishing a line between San Francisco and Portland, Ore., of much lower grade and of less curvature than the present line over the Siskyou Mountains. Nevada & California Railway; an extension is in course of construction from Hazen to Fallon, about 17 miles. About four miles are com... about eight miles are graded, and wo... progressing on the remainder of the l... furnish an outlet for produ... to be irrigated by the ... construction by the Reclam... the United States Gover... Yaqui River & Pacific Ra... pany is building a line ... point on the Sonora Railwa... Mex., about 170 miles. A... the line have been approved ... Government and was put ... July 15, 1906. Rails are ... ditional miles and work on ... the line is progressing. ... projected from Corral to A... miles. Southern Pacific C... cific Coast Railway Concessi... nary surveys for this line are ... the filing of maps in 10-kilom... accordance with the requirem... ican Government. Is progre... probably be completed in abo... This line runs from Alamos, ... on the Cananea, Yaqui River ... road, along the west coast ... Guadalajara, a distance of a... W. Hood is Ch. Engr., San ...

TANANA MINES R. R. ... Pres. and Gen. Mgr., Fair... states that extensions will be ... mer from Gilmore to Dome ... eight miles, and from Esther ... ther Creek, four miles.

TENNESSEE.—The Meigs ... has appointed a committee to ... way and a bonus of $25,000 ... of a railroad from Chattanoo... or Harriman, Tenn. S. S. ... Decatur, Tenn.

TENNESSEE & NORTH CAROLINA.—P. T. Baumann, Gen. Supt., Newpo... reports than surveys are about ... an extension from Waterville ... N. C., 35 miles.

TERMINAL R. R. ASSOCIATION.—Executive officers of the various railroads entering St. Louis have resolved to extend the credit of their companies to the Terminal Railroad Association of St. Louis, that it may secure funds to enlarge and improve the general terminal system in the city. From $10,000,000 to $15,000,000 of bonds will have to be issued in addition to the $1,000,000 a year which is available for the association. W. S. McChesney, Jr., is Pres. and Gen. Mgr. of the Terminal Association, and H. J. Phiefer is Engr. M. W.

TEXAS NORTHERN.—Hans Helland, Ch. Engr., Cockrell Bldg., Dallas, advises us that company has let contracts for building between Dallas and Egan, via Mansfield, 38 miles, as follows: BALL, CARDEN CO., of Dallas, Tex.; and the MIDLAND BRIDGE CO., of Kansas City, Mo. Work consists of building a 160-ft. span over Trinity River, one mile of trestling, and three miles of grading, at present. Surveys are made and capital secured. Right-of-way is partly obtained. B. P. McDonald is Pres., Wilson Bldg., Dallas.

UNION PACIFIC.—The KILPATRICK BROS. & COLLINS CONSTRUCTION CO., Beatrice, Neb., have been awarded contract for construction of the Athol Hill cut-off on the Denver-Cheyenne branch. Estimated cost, $500,000. The contractors will have headquarters at Cheyenne, Wyo.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

SENECA FALLS, N. Y.—The Geneva, Waterloo, Seneca Falls & Cayuga Lake Traction Co. has been given permission by the State Railroad Commission to increase its capital stock from $450,000 to $1,000,000, and to issue a new bond issue of $1,000,000. The purpose of the increase in capital is to rehabilitate the entire road from Geneva to Seneca Falls and Cayuga Lake Park and to extend the line across Cayuga Lake to the village of Cayuga and thence to Auburn. When the road between Cayuga Lake and Auburn is completed the last gap in the electric railway connection between Rochester and Syracuse, paralleling the Auburn branch of the New York Central R. R., will be closed. A continuous trolley service will then be possible from Rochester to Syracuse by the way of the Rochester & Eastern, Geneva, Waterloo, Seneca Falls & Auburn line, and by the Auburn & Syracuse line. W. C. Gray, Seneca Falls, is Mgr. and Pur. Agt.

PERTH AMBOY, N. J.—The Jersey Central Traction Co. has offered $50,000 to Middlesex County for a 20-year franchise for an electric railway across the drawbridge between Perth Amboy and South Amboy, to connect with its shore line, which is now separated by the Raritan River. The company offers to build a line to connect Plainfield and South Plainfield with seashore points. H. A. Clarke is Vice-Pres., Perry Bldg., Philadelphia.

HARRISBURG, PA.—Charters have been granted as follows by the State Department: Sharon Hill & Upper Darby Railway Co., to build seven miles; capital, $50,000. It will extend from Sharon Hill, Delaware County, through the boroughs of Collingdale, Aldan, Clifton Heights to Landsdowne. This company has made a satisfactory arrangement with the Darby, Media & Chester Electric Railway Co. to use 700 ft. of line on Marshall Road, each company to bear half the cost of construction and half the cost of maintaining this stretch of line to be used by both companies.

Prospect Park Railway Co., 2½ miles long; capital, $25,000; to build a line from Prospect Park through Morton to Baltimore Ave. and Woodland Ave., in Springfield Township, Delaware County.

The Tinicum & Sharon Hill Railway Co., four miles long; capital, $25,000; to build a line from Sharon Hill, over ... by Creek, to Philadelphia, using 84th St., Dicks Ave., 79th St., Tinicum Road, in Philadelphia; also to build a loop in Philadelphia from 84th St., Dicks Ave., to Tinicum Road, and

over the tracks of the Southwestern Railway Co. to Island Road. The company has made an agreement with the Southwestern Railway Co. for the use of this portion of the latter's line. The directors of the above-named companies are: Walter A. Rigg, of Reading, Pres.; J. Milton Miller, H. H. Reigel, W. A. Rosen and C. Bell.

JOHNSTOWN, PA.—Press reports state that the Arbutus Park Street Railway Co. has announced that, owing to Mayor Young's veto of its franchise recently passed by the Councils, it would offer by public advertisement its charter and right-of-way over all private property necessary, free from any charges whatever, to any person or persons who will guarantee to build the line within a reasonable time. If no favorable proposal is received within 30 days the company says its charter will be surrendered to the State and the project abandoned. Mayor Young vetoed the ordinance because it provided for a perpetual franchise free.

SANDY SPRING, MD.—The Sandy Spring Ry. Co., we are officially advised, will probably let contracts this year for building its line through Kensington, Norbeck, Sandy Spring, Ashton and Clarksville, Md., 28 miles. Surveys have been partly run and right-of-way is partly obtained. Charles F. Brooke is Pres., at Sandy Spring. R. H. Phillips is Ch. Engr., 1410 H St., N. W., Washington, D. C. Noted on Nov. 29.

WILMINGTON, N. C.—A. B. Skelding, Mgr. of the Consolidated Railways, Light & Power Co., advises us that contracts have been let as follows for extensions to Carolina Place and South Wilmington, equivalent to about seven miles of single track: Rails and special work to the PENNSYLVANIA STEEL CO., Philadelphia, line material, THE H. W. JOHNS-MANVILLE CO., 100 William St., New York; trolley wire, JOHN A. ROEBLING'S SONS CO., Trenton, N. J.

CONCORD, N. C.—The Concord St. R. R. & Realty Co. will build four miles of electric railway line in this city, for which franchise and right-of-way has been obtained. C. W. Johnson, Charlotte, N. C., is Pres. Surveys have not been made. Quint E. Smith is City Engr.

DURHAM, N. C.—The Durham Passenger & Power Co. has been granted an extension of time until June 1 next by the County Commissioners to begin work on its proposed electric line from Durham to Raleigh, N. C., about 22 miles. Jones Fuller, of Durham, and others are interested.

GREENVILLE, S. C.—The Greenville & Greenwood Railway Co. has been granted a charter to build a line connecting the two points named, about 45 miles. It may be operated by either steam or electricity. H. H. Prince is Pres.; S. A. Andersou, of Marietta, Ga., Vice-Pres.; F. C. Owens, of Atlanta, Treas., and T. J. Conners, Secy. The attorney is J. A. McCullough.

CHARLESTON, S. C.—The South Carolina Public Service Corporation has been chartered at Columbia, S. C., to construct an electric railway in Charleston, S. C., and from Charleston to Columbia, with privilege of extending the line to Spartanburg and Charlotte, N. C., passing through the towns of Lexington, Saluda, Greenwood, Abbeville, Anderson, Greenville, Gaffney, Yorkville, Rock Hill, Chester, Union, Laurens and Newberry; also to build a road from Augusta to Orangeburg via Aiken, and to construct and operate railways for local business in each of the towns named. The total length of the lines projected is to be 525 miles. The concern is to use as power electricity, gasoline or steam, and with the exception of the road entering Augusta the road is to be standard-gage. The minimum capital stock is to be $5,000,000 and the maximum is $10,000,000. J. S. Timmes is Pres. of the corporation; C. R. Van Etten, Vice-Pres., and John P. Bonney, Secy. and Treas. The headquarters will be at Columbia, S. C.

JACKSONVILLE, FLA.—Press reports state that after considerable time spent in adjusting differences that existed between the Jacksonville Electric Co. and the City Councils of that city, a settlement has been reached by which the city is to take over the commercial interests of the Jacksonville Electric Co. and new franchises granted the street railway that means considerable extension of its tracks and entering portions of the city that were not heretofore reached. The settlement is considered of vast importance to the city of Jacksonville, and a special election will be held in February to ratify the agreement made, which, it is announced, meets with very general favor on the part of the citizens, as this move consolidates two companies, operating under different franchises, and gives additional revenues to the city, with many new lines to be constructed. Hardy Croom is Gen. Supt. and Elec. Engr., at Jacksonville.

TAMPA, FLA.—The Tampa Electric Co. will build an extension via Michigan Ave. to West Tampa. Franchise has been granted by County Commissioners. George W. Wells, Tampa, is Mgr.

ELIZABETHTON, KY.—G. J. Lampton, of Lampton & Sons, Louisville, Ky., is reported as saying that $80,000 will build the proposed electric railway from Elizabethton to Cecilian, Ky., and that he will build it if sufficient encouragement is offered. The Commercial Club will take up the matter.

HENDERSON, KY.—T. Bethell, of Henderson, who is promoting the Evansville, Henderson & Uniontown Traction Co., advises us that company will build an electric line following the Ohio River to a point beyond overflow mark, about 25 miles long, through an agricultural section, connecting Henderson, Uniontown, Ky., and Evansville, Ind.

RUSSELLVILLE, OHIO.—THOMAS DAULTON, of West Union, Ohio, has been awarded contract for building an extension of the Cincinnati, Georgetown & Portsmouth R. R. Co. from Russellville to West Union, 14 miles. A. H. Ebner is Supt., Station C, Cincinnati.

BLUFFTON, IND.—Calvin P. Godfrey, Ottawa, Ohio, advises us that contracts may be let by the Cleveland-Indianapolis Traction Co. this summer for building its line from Bluffton, Ind., to Norwalk, Ohio., 153 miles, via Decatur, Ind., Van Wert, Ottawa, Findlay and Tiffin, Ohio. Surveys have been run and right-of-way (about 50%) obtained.

LINCOLN, NEB.—The Citizens' Ry. Co. probably will build about 15 miles of extensions this year, which include lines to Lincoln Park and Epworth Lake.

JOPLIN, MO.—We are officially informed that the Joplin & Pittsburg St. Ry. Co. has made preliminary surveys for its proposed line, and city has granted it right-of-way. Capital has been secured. Contracts will be awarded for only part of the line. The city portion of the railway will be twelve miles long and the interurban lines 48 miles long. D. H. Holmes, Kansas City, is Pres.; D. K. Wenrich, Joplin, is Secy.

SEDALIA, MO.—Official announcement is made that the Missouri Interurban Ry. Co. will build about 80 miles of line connecting the towns of Sedalia, Smithton, Otterville, Soleville, Bunceton, Prairie Home, Cedron, California, Centertown and Jefferson City, which is the State Capital. The country through which the road will pass is thickly populated, and contains some of the finest agricultural land in the West. Certain sections also contain mineral deposits. H. H. Humphrey and H. B. Colby are the Engrs.-in-Charge. The main office is at Jefferson City, and all communications should be addressed to C. W. Thomas, Secy. The stock is being liberally subscribed for all along the route, but only a portion of it will be offered to the public. This 80 miles of track is the central link in a scheme to connect the cities of St. Louis and Kansas City by an electric railway. The cost of construction is estimated at $1,500,000.

SAN ANGELO, TEX.—We are officially advised that "plans have been made for building a street railway system in this city, the motive power to be independent gasoline engines on each car, either running cars direct or generating current to charge storage batteries, which will run motors, as on trolley cars. The officers and directors of company have not yet been formally elected. Work will be new throughout. Proposed route will call for about five miles of road, one mile of which will be double-tracked and the balance single track. Surveys and grade lines have not yet been run. We want the services of an experienced railway surveyor. Franchise has not yet been granted. This is the main reason for our delay in furnishing names to the public. About half of the necessary capital has been obtained here, and we are in the market for the balance. Contracts will be let about April 15, 1907. All bids should be addressed to Clarendon Ions, Box 278, San Angelo, Tex. This proposition should interest the construction trades with whom we desire to figure. We also wish to get in communication with any and all makers of electric and gasoline cars.

DALLAS, TEX.—J. F. Strickland, Pres. of the Central Texas Traction Co., Houston, informs us that company will let contracts in about 60 days for building its line from Dallas to Corsicana, Waxahachie and Ennis, 65 miles. Preliminary surveys have been made. Right-of-way has not been secured yet. F. A. Jones is Ch. Engr., Houston, Tex.

LOS ANGELES, CAL.—The San Bernardino Interurban Railway Co., which is capitalized at $1,000,000, has been incorporated in Riverside County, Cal. Four electric lines and branches will be built by the company, aggregating 48 miles, in Riverside and San Bernardino Counties. The system will include a road beginning in San Bernardino and running south through Colton to Riverside; a road commencing in San Bernardino and running west through Rialto and Upland to the western limit of San Bernardino County; a branch line starting from the most convenient point on the San Bernardino-Riverside line and extending east to Highgrove, and another branch line starting from the San Bernardino-Riverside line and running east to Redlands. The directors are: H. E. Harris, Victor Smith, S. S. Draper and A. G. Kendall, of San Bernardino, and O. L. Moorman, of Riverside. A. G. Kendall is Treas. of the company, which has named San Bernardino as its place of business. Work on the new lines will begin at once.

WALLACE, IDAHO.—The City Council has passed an ordinance granting franchise to William J. Hall to build an electric railway in this city.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BANGOR, ME.—Plans are being prepared by the Bangor Railway & Electric Company for the construction of the dam and powerhouse which will be erected on the Union River at Ellsworth Falls. Work will commence as soon as the weather will permit.

WINSTED, CONN.—The Winsted Gas Co. has decided to increase its capital from $125,000 to $175,000, and make extensive improvements to the electric and gas plants. Among the new directors are: Frank M. Travis, Henry Skinner and Henry Gay.

DANBURY, CONN.—The Danbury & Bethel Electric Light & Gas Co. intends to remodel its present plant completely and install 400-KW. additional capacity. This will include a complete additional steam plant, building, coal storage, and electrical apparatus. W. S. Barstow & Co., 56 Pine St., New York, are the engineers, and will supervise the installation of the work.

BRISTOL, CONN.—The Bristol Mfg. Co., 65 Riverside Ave., which makes knit underwear, has awarded to the EASTERN EXPANDED METAL CO., 101 Tremont St., Boston, Mass., the contract for erection of a steam power plant. The structure will be 45 x 70 ft., and will be built of concrete. Two boilers will be installed, and space will be provided for the ultimate placing of two additional boilers.

BUFFALO, N. Y.—Bids are asked until Jan. 29, by the Board of Public Works, for lighting the streets and public buildings with gas and for furnishing gas to private consumers for five years, beginning March 1, 1907.

COEYMANS, N. Y.—An application has been filed with the State Lighting Commission at Albany, by the West Shore Electric Co. asking consent to furnish the towns of Coeymans and New Baltimore with electricity for lighting purposes, also for authority to issue $30,000 of its authorized capital stock, and also to issue bonds in the amount of $25,000, the proceeds of both issues to be used in purchasing property and in construction and equipment work. John N. Briggs and Charles Van Hoesen, of Coeymans, are interested in the company.

NIAGARA FALLS, N. Y.—William H. Taft, Secy. of War, Washington, D. C. has issued permits for the importation of 160,000 electrical HP. generated on the Canadian side of Niagara Falls into the United States. The following companies are the ones receiving permits: International Railway Co., 1,500 HP.; Ontario Power Co., 60,000 HP.; Canadian Niagara Falls Power Co., 52,500 HP.; Electrical Development Co., 46,000 HP. These permits are issued under the authority of the Burton law, which provides for the importation of not more than 160,000 electrical horse-power into the United States from Canada at Niagara.

DOVER, N. J.—Bids are asked by Maj. B. W. Dunn, Ordnance Dept., Frankford Arsenal, Philadelphia, Pa., until Feb. 1, for furnishing and delivering f. o. b. at the U. S. Powder Depot, Dover, N. J., ordnance supplies No. 5 A, as follows: One 125-KW. alternating-current generator, direct-connected to a suitable engine or turbine; one engine or turbine for generator as specified in item above; one motor-driven exciter unit; one engine-driven exciter unit; one switchboard and connections; alternating-current motors; one steam-driven air compressor; one vertical air receiver, 42 in. diameter by 10 ft. high; three 200-HP. boilers, 2,000 sq. ft. heating surface each; three superheaters; three sets of shaking grates; one smoke flue or breeching; one damper regulator; one chimney; two injectors; two duplex boiler feed pumps; one duplex hot water circulating pump; one open feed-water heater and purifier; one blow-off tank. Preference will be given to articles of domestic production and manufacture, quality and price being equal.

FORT HANCOCK, N. J.—See under Manufacturing Plants.

ELIZABETH, N. J.—The Elizabeth Gas Co. has awarded contract to the GAS MACHINERY CO., of Cleveland, Ohio, for a quantity of apparatus. The work will involve construction of new building.

WILKES-BARRE, PA.—The Hazard Wire Rope Manufacturing Co. is contemplating installation of a power plant to supply electricity to operate its entire plant by electricity.

BETHLEHEM, PA.—The Bethlehem Consolidated Gas Co. will erect a gas plant on the South Side costing $35,000, including a holder and a new station meter and condensers will be put in. New mains will also be laid. J. W. Murdock is Mgr.

BALTIMORE, MD.—Plans are being prepared by Owens & Sisco, Archs., Continental Bldg., Baltimore, for a power-house at Monument and Exeter Sts. for the Terminal Warehouse Co.

CAMBRIDGE, MD.—The Dorchester Public Service Corporation, incorporated recently in Baltimore, on Jan. 15 received a franchise for the installation of an electric light plant in Cambridge from the Board of Town Commissioners. The company agrees to erect a plant to cost not less than $70,000 and to have it in operation by May 1, 1908. The plant is to be capable of furnishing power for all purposes needed in Cambridge, and also to be sufficient to run an electric railroad from Cambridge to Fox Creek.

WASHINGTON, D. C.—JAMES STEWART & CO. have contract for a power-house to be built for the Washington Terminal Co. D. H. Burnham & Co. are Archs. Estimated cost, $600,000.

WASHINGTON, D. C.—Bids are asked until 2 p. m., Feb. 25, by Lieut. J. H. Poole, Corps of Engrs., Supt., for renewing portions of heating, lighting and power plant of the State, War and Navy Building. Specifications and bidding sheet are on file at office of Engineering News, New York.

EUFOLA, N. C.—It is reported that the Long Island Cotton Mill Co. has purchased water power property on the Catawba River near Eufola, and will arrange for its development.

COLUMBUS, GA.—It is reported that a 200,000-HP. plant is about to be constructed on the Chattahoochee River, between Columbus and West Point, where there are some very heavy falls which will be utilized. The project, which is being backed by the Columbus Power Co. and a number of Eastern capitalists, will involve an expenditure of over $2,000,000.

JACKSONVILLE, FLA.—Bids are asked by the Trustees for the Water-Works and Improvement Bonds until Feb. 4 for erecting at the city electric light station one chimney 10 ft. internal diameter and 125 ft. high. R. N. Ellis is Supt. B. F. Dillon is Chn.

MOBILE, ALA.—Bids are asked until Feb. 4 by the Board Revenue and Road Commissioners for a complete conduit installation for a low tension of electric lighting at the new jail building. Rudolph Benz & Sons are Archs., 10 North Royal St.

MONTGOMERY, ALA.—Montgomery Light & Water Power Co. has decided to arrange for improvements to service, extending gas mains and electric lines. G. A. Montgomery is Gen. Supt.; A. S. Lowrie is Ch. Engr.

WEST MONROE, LA.—The City Council on Jan. 8 authorized R. L. Rieuehart, Mayor, to secure the services of an engineer to make a survey of the town for the purpose of putting in an electric lighting plant.

JACKSON, MISS.—Bids are asked until Feb. 4 by J. G. Savage, Chn. Bldg. Com., for installing a steam heating plant and an electric lighting plant for the Alcorn Agricultural and Mechanical College. R. H. Hunt, Jackson, is Arch.

LOUISVILLE, KY.—It is reported that the Louisville Gas Co. is to erect a 500,000 cu. ft. gasometer at a cost of $40,000. A. H. Barret is Ch. Engr.

EAST LIVERPOOL, OHIO.—Bids are asked by the Board of Public Service until Feb. 8 for furnishing electricity for lighting to the city for five and ten years.

SOUTH BEND, IND.—The South Bend Electric Co. is making arrangements to greatly improve its power plant on East Colfax Ave. It is the intention to replace the engines with steam turbines. The plant will be used as an auxiliary in case of low water or accidents to the transmission lines from Hen Island and Buchanan, Mich. The improvements when completed will cost about $100,000. L. B. Andrus is Supt.

NORTHPORT, MICH.—Bids are asked until Feb. 10 for construction of water-works and an electric light plant, to cost $10,000. W. R. Caldwell, of Traverse City, is Engr.; Chris. B. Kehl is Pres. Water & Light Com.

IRON RIVER, MICH.—We are officially advised that a water power electric plant will be constructed at Hemlock Rapids, which will cost $100,000. Light will be furnished to Iron River, Stamborough and Spring Valley, and power will be supplied to mines. It is estimated that 2,100 HP. will be the capacity of the plant. A. J. Lytle, Iron River, is Gen. Mgr.

PEORIA, ILL.—The Peoria Gas & Electric Co. is contemplating an expenditure of $1,000,000 in enlarging and improving its system. R. S. Wallace is Supt. and Ch. Engr.

BLOOMINGTON, ILL.—At a meeting of the City Council held recently the ordinance was passed providing for remodeling the electric light plant. Elmer Folsom is City Engr.

WINONA, MINN.—The Light & Power Co., which intends to develop water power of Black River at Hatfield, Wis., has decided to apply for a 50-year franchise from the City of Winona.

KALISPELL, MONT.—The Flathead Valley Water Power Co. is reported to have purchased the power plant of the Big Fork Electric Power & Light Co., and will expend about $50,000 in improvements.

ST. LOUIS, MO.—Helfensteller, Hirsch & Watson, 415 Locust St., St. Louis, will prepare plans for a central heating plant for Concordia Theological Seminary, to cost about $25,000.

HEARNE, TEX.—It is reported that the International & Great Northern R. R. Co. will shortly begin the construction of proposed electric light plant. Thomas Hume, San Antonio, Tex., is Div. Supt.

CHEYENNE, WYO.—It is reported that in about two months work will be started on a new electric plant to replace the present plant of the Northern Colorado Power Co. Estimated cost, $1,000,000. W. J. Baker is Pres.

SPOKANE, WASH.—Regarding the plans of Jay P. Graves, Pres. Spokane & Inland Ry. Co., who is preparing to construct a power plant at Nine Mile Bridge, at which it is proposed to generate 20,000 HP., the Spokane "Spokesman-Review" says: "When completed the dam will be 75 ft. wide at the bottom and 60 ft. high, terminating at the top in an oval, and will contain 17,000 cu. yds. of concrete and stone. The dam and power-house—the latter forming part of the dam—will be 455 ft. in length. The power-house will be 110 ft. in length, 114 ft. in width and 111 ft. above the bottom of the river." SANDERS & PORTER have contract to construct plant, and have placed F. M. Sylvester in charge.

LOS ANGELES, CAL.—The City Trustees have decided to make an important extension of the municipal electric line for the accommodation of a large section of Arlington Heights. Homer Hamlin is City Engr.

PASADENA, CAL.—We are officially advised that following are details regarding work to be done in connection with installing municipal lighting plant, mention of which was made in issue of Engineering News Jan 17. There will be 30 6.6-amp. arc lamps and 12,000 16-c.-p. incandescent lights. C. C. MOORE & CO., Los Angeles, Cal., have contract for supplying a 200-KW. unit. Contracts for a second 200-KW. and a 300-KW. unit will be let in about 90 days. Outside work will be done by day force. Power will be supplied for both street and commercial lighting. Charles E. Glass is Des. Engr. and Mgr.

BISBEE, ARIZ.—The International Gas & Light Co. is preparing to install an electric light plant in this town, for which it was recently granted a franchise. E. F. Gressler is Mgr.

OTTAWA, ONT.—The by-law authorizing an agreement with the Hydro-Electric Commission for the supply of power to the civic electric plant, was passed on Jan. 7. The Corporation is applying to Parliament for authority to borrow $500,000 to purchase and develop a power plant; to lease or purchase electrical power or energy for the municipal electrical plant; for the purchase, by bond issue, of the plant of the Consumers' Electric Co.; for the expenditure of $51,133 for local improvements, and for power to borrow $11,695 for water-works extension and improvements.

BARRIE, ONT.—It is reported that Fred Nicholls, of Toronto, has secured a franchise to construct and operate an electric light, heating and power plant here.

BRANDON, MAN.—EATON & SPRING, of the International Lighting & Heating Co., Beatrice, Neb., have secured a 30-year contract to supply gas to Brandon, and will erect a plant at a cost of about $100,000.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

VAN BUREN, ME.—The question of constructing an international bridge across the St. John River, at this place, will soon be brought before the State Legislature. Senator Patrick Theriault, of Grand Isle, has plans calling for a bridge to be about 1,000 ft. long and estimated to cost $75,000.

CAMBRIDGE, MASS.—Bids were opened Jan. 16 for constructing Lechmere Canal bridge, as follows: Boston Bridge Works, 47 Winter St., Boston, $26,100; Elm Bridge Co., $26,200; New England Construction Co., 332 Exchange Bldg., Boston, $27,632, and United Construction Co., $35,648. Lewis M. Hastings is City Engr.

BRIDGEPORT, CONN.—It is reported that George C. Tilyou, owner of Steeplechase Island, will construct a bridge at the foot of Seaview Ave., to connect his summer resort with the mainland.

JERSEY CITY, N. J.—Bids will soon be asked for the new viaduct from Hoboken to Jersey City Heights. James W. Leahy, Fuller Building, Jersey City, is Engr.

LANGHORNE, PA. — The KEYSTONE STRUCTURAL CO., Harrison Building, Philadelphia, has been awarded contract to erect the superstructure of bridge No. 21, over the public road east of this city, for the Philadelphia & Reading Ry. Co. Estimated cost, $12,000. William Hunter is Ch. Engr., Philadelphia.

READING, PA.—Nevin M. Davis, County Engr., has been directed to prepare plans for a 60-ft. reinforced concrete bridge over Northkill Creek, between Jefferson and Penn Townships. Work on two other bridges will soon be started.

WASHINGTON, D. C.—The Pennsylvania R. R. Co. has awarded to WILLIAM H. JOHNSON, JR., Philadelphia, Pa., contract for removal of the abandoned Long Bridge across the Potomac River at this city. Mr. Johnson receives all the material of the bridge and its removal must be accomplished within four months. The piers in the river will have to be removed, in compliance with United States regulation. Those in the channel to be removed at a depth of 22 ft. below mean low water. H. R. Leonard is Engr. Bridges, Philadelphia.

PRENDERGAST, W. VA.—Bids will soon be asked by the Mingo Block Coal Co. for constructing the first of the bridges on its connecting railroad from the Norfolk & Western Ry. to its holdings near this city. Dr. Henry M. Payne is Gen. Supt. and Ch. Engr., at Williamson, W. Va.

SHEPHERDSTOWN, W. VA.—The Norfolk & Western Ry. Co. has awarded contract for constructing the new bridge across the Potomac River, this city, to the ROANOKE BRIDGE & CONSTRUCTION CO., Roanoke, Va. J. E. Crawford, Roanoke, is Bridge Engr.

BIRMINGHAM, ALA.—Bids are asked by the Board of Revenue of Jefferson County, until noon, Feb. 5, for constructing twelve new steel bridges and for replacing wooden joists and handrails with steel on six steel bridges. P. S. Milner is County Engr.

LAFAYETTE, LA.—Bids are asked until Feb. 7 by the Lafayette Parish Police Jury for construction of an iron-frame bridge over the Vermillion River at Darmas Broussard's Crossing. Estimated cost, $4,000.

CHATTANOOGA, TENN.—Bids are asked by the Chattanooga-Chickamauga National Park Commission until Jan. 29 for constructing Alexander's bridge. The bridge will be of steel with a reinforced concrete floor and 70-ft. span.

ORWELL, OHIO.—Bids are asked by the County Commissioners until noon, Feb. 4, for filling the bed for the new Hudson bridge at this place. P. C. Remick, at Jefferson, Ohio, is County Audr.

CINCINNATI, OHIO.—Bids are asked by the Board of County Commissioners until noon, Feb. 15, for new woodwork on iron bridge over Little Miami River, at Loveland, Symmes Township. Fred. Driehs is Clk. Bd. County Comrs.

FARMERSVILLE, OHIO.—The County Commissioners on Feb. 14 will consider the question of constructing a 300-ft. steel bridge over Big Twin Creek, south of this city. Estimated cost, $9,000.

MIDDLETOWN, OHIO. — The Cincinnati Northern Traction Co. will build the longest bridge in Butler County over the Great Miami River south of this city next spring. It will be 750 ft. long and will have three spans. C. E. Alderman, at Hamilton, Ohio, is Ch. Engr.

KOKOMO, IND.—The County Commissioners have decided to construct a concrete arch bridge over Pete's Run in Palmer St. W. F. Mann is City Engr.

PRINCETON, IND.—Bids are asked by the County Commissioners until Feb. 5 for furnishing and erecting 19 bridges. Harry R. Embree is County Audr.

MANISTEE, MICH.—The HURON BRIDGE & IRON CO., Port Huron, Mich., has been awarded contract for constructing bridge over the Manistee River, near Eastlake. Bids were also received from the Illinois Bridge Co., Chicago, Ill., and U. V. Cheesman, Benton Harbor, Mich.

CHICAGO, ILL.—Contracts for two Cooper E 50 specification bridges have been let by the Cooperative Construction Co. to the MODERN STEEL CONSTRUCTION CO., Waukesha, Wis. These are the first contracts for bridges let by this company which has the contract for building and equipping the Chicago & New York Electric Air Line, work on which has begun near Laporte, Ind. Thirteen similar bridges will be built on the first section, which includes the stretch from Goshen, Ind., to Chicago. Jonathan D. Price is President of the Cooperative Construction Co. and A. C. Miller, of the R. R. Co.

Plans have been drawn for erecting a $350,000 bascule bridge over the Chicago River from Franklin to Orleans St. The bridge will span the river diagonally from Franklin St. on the south to Orleans St., making a total length of 500 ft. The structure will be 60 ft. wide and will be built of steel and concrete. The plans provide for the use of 10,000 tons of steel in the superstructure and for 5,000 cu. yds. of concrete. Thomas G. Philfeldt is City Bridge Engr.

MAHOMET, ILL.—The ILLINOIS BRIDGE & IRON CO., of Sullivan, Ill., has been awarded contract for constructing bridge across the Sangamon River below this city, for $4,197. The bridge will have a 170-ft. span and 16-ft. roadbed.

ROCK ISLAND, ILL.—Bids are asked by Col. S. E. Blunt, Ordnance Dept., U. S. A., Rock Island Arsenal, until Feb. 12, for rebuilding the United States bridge and viaduct between this city and the Rock Island Arsenal.

UTICA, ILL.—Deer Park and this city have voted to rebuild bridge over the Illinois River. Deer Park has voted to borrow $12,500 to pay for its share of the work.

JANESVILLE, WIS.—C. V. Kerch, City Engr., has been directed to prepare plans and specifications for constructing a new Fourth Ave. bridge.

BRODHEAD, WIS.—Contract for constructing the Ten Eyck bridge has been awarded to the ELKHART BRIDGE CO., at $3,333. Work will commence in the spring.

MUSCATINE, IOWA.—Bids are asked by the County Commissioners until Feb. 5 for the county steel bridgework during 1907. Estimated cost, $8,000.

BRAINERD, MINN.—Bids are asked by J. F. Smart, County Audr., until Feb. 5, for constructing a bridge across Pine River at Mission.

MINNEAPOLIS, MINN.—The Northern Pacific Ry. Co. will rebuild the bridge over the tracks of the Northern Pacific and the Great Northern Railway Companies at University and 29th Ave. Northeast, which was destroyed by fire three years ago. Cost, $18,000. W. L. Darling, St. Paul, Minn., is Ch. Engr., Northern Pacific Ry. Co.

FREMONT, NEB. — The STANDARD BRIDGE CO., New York Life Bldg., Omaha, Neb., was awarded, Jan. 9, contract for constructing bridges in Dodge County during the present year. Bids were also submitted by the Kansas City Bridge Co., Joliet Bridge & Iron Co., The Canton Bridge Co., E. S. Beaty, and the Campbell-Flagler Bridge Co. A. P. Shephard is Chn. County Bd. Supvs.

LINCOLN, NEB.—Bids are asked until 2 p. m., Feb. 5, for furnishing all material and labor and constructing all bridges that may be ordered in Lancaster County for one year from date of contract. W. L. Dawson is County Clk.

ABERDEEN, S. DAK.—Bids are asked by E. G. Cummings, County Audr., until Feb. 6 for furnishing the material and constructing 112-ft. steel bridge over the James River in Township 125, Range 62. D. C. Washburn is City Engr.

EDINA, MO.—Thomas Conway, Road and Bridge Comr., has let contracts, as follows, for constructing bridges: PAN-AMERICAN BRIDGE CO., Moberly, Mo., three bridges; DILDINE BRIDGE CO., Cameron, Mo., three bridges; MIDLAND BRIDGE CO., two bridges; McCALM & VERNON, Lewistown, Mo., two bridges; ILLINOIS BRIDGE CO., Sullivan, Ill., one 84-span bridge, and the OTTUMWA BRIDGE CO., Ottumwa, Iowa, one 84-span bridge.

NORTH YAKIMA, WASH.—Contract for constructing the new Selah bridge across the Yakima River has been awarded to the NORTHWEST BRIDGE CO., at about $19,000. Bridge to have a 330-ft. span and 23-ft. driveway.

PORTERSVILLE, CAL.—Bids are asked by the Board of Trustees until 7.30 p. m., Feb. 18, for constructing steel bridge in this city. Robert Horbach is City Clk.; Morve L. Weaver is City Engr., at Visalia, Cal.

BRANDON, MAN.—The Board of Works has decided to have the proposed First St. bridge constructed this summer. Estimated cost, $32,000.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BURLINGTON, VT.—James Knox Taylor, Superv. Arch., Washington, D. C., has awarded to the OTIS ELEVATOR CO., 17 Battery Pl., New York, contract for the installation of an elevator, to be installed in the Burlington post-office, at $5,980. Time, Sept. 28.

GREAT BARRINGTON, MASS.—Plans are being prepared by J. M. Vance, Arch., Pittsfield, Mass., for a hotel, to cost $250,000. H. C. Eldridge, 341 West 84th St., New York, is interested.

NEW YORK, N. Y.—We are officially advised that contract for masonry work on the new Singer Sewing Machine Co.'s building, Broadway, between Cortlandt and Liberty Sts., will be let in about ten days. Ernest Flagg, 35 Wall St., is Arch.

The following bids were received Jan. 16 by Theodore A. Bingham, Police Comr., for completing abandoned contract of Thomas G. Carlin, for general construction of stationhouse, prison and stable for the 72d Precinct on the south side of Lawrence Ave., near Third St., Boro. of Brooklyn: J. & L. Moreland Co., 1910 Park Ave., $81,713; F. T. Nesbit & Co., 116 Nassau St., $78,000; Daniel J. Ryan, 723 Third Ave., $67,320; N. B. Smythe, 1123 Broadway, $107,000.

NEW YORK, N. Y.—The George A. Fisher Co., 75 Manhattan St., has commissioned G. Fred. Pelham, 503 Fifth Ave., to prepare plans for a building at the corner of Broadway and 144th St., a plot 100 x 100 ft. It will erect a 7-story elevator apartment house, with stores in Broadway, to cost about $175,000. Provision is being made for the accommodation of six families on each floor above the first, to occupy apartments of four, five, six and seven rooms. The facades are to be of brick, trimmed with limestone and terra cotta.

Cram, Goodhue & Ferguson, Archs., 170 Fifth Ave., have plans for the new church for the Parish of St. Thomas's, to be built at corner of Fifth Ave. and 53d St. The plans have yet to be approved by the vestry and the congregation.

A report made to Congress on Jan. 15, recommends that another story be added to the post-office building in New York, at a cost of $400,000. The addition will give about 40,000 sq. ft. more floor space.

Walter Russell, 15 West 67th St., has planned a studio apartment hotel, which will be built on 72d St., facing Manhattan Sq. and the Museum of Natural History, at a cost of $2,000,000.

NEW YORK, N. Y.—Bids are asked until noon, Feb. 4, by M. Craven, Comr. of Street Cleaning, for furnishing and delivering building materials, consisting of cement, lime, ground fireclay, North River bricks, firebricks, pulverized slate and roofing pitch.

RAVENA, N. Y.—It is reported that the New York Central & Hudson River R. R. Co. is contemplating construction of a new station at Ravena, on the West Shore R. R. Ravena is about 15 miles south of Albany, and it is at this point that all traffic from the north, bound for the west, transfers. W. J. Fripp, Albany, N. Y., is Supt. of this division.

BUFFALO, N. Y.—Negotiations are now taking place in view of establishing at Buffalo a union passenger station. W. H. Truesdale, Pres. Delaware, Lackawanna & Western R. R., New York, is Chn. J. N. Adam is Mayor.

Green & Wicks, Archs., 110 Franklin St., will prepare plans for a building for the Children's Hospital, to be erected on Bryant St. The building will be donated by Mrs. Chas. W. Pardee, 938 Delaware Ave., and will cost $100,000.

SYRACUSE, N. Y.—Henry Ryan, 342 South Ave., submitted the lowest bid, at $170,000, for erecting the North Side High School building. The bid of Edward Joy, corner West Washington and Market Sts., was the lowest bidder for plumbing, at $7,400.

ROCHESTER, N. Y.—Plans are being prepared by Charles F. Crandall and John F. Strobel, 401 E. & B. Bldg., for a hotel, to be erected by Walter B. Duffy. The building will be eight stories, 84 x 191 ft.; will have two main entrances and about 300 rooms. The building will cost $300,000, exclusive of site and equipment.

NEW PALTZ, N. Y.—Bids are asked by Andrew S. Draper, Comr. of Education, Capitol, Albany, N. Y., until noon, Feb. 9, for construction of State Normal School building, including heating, plumbing, electric light, wiring and fixtures and gas-piping, at New Paltz. The cost of the work will be about $125,000.

ATLANTIC CITY, N. J.—Plans are being prepared by S. H. Vaughn, Bartlett Bldg., for a hall and lodge building, to be erected for the Atlantic City Order of Elks. The building will have four stories, will be of brick and stone construction and will cost about $100,000.

FORT HANCOCK, N. J.—Plans, specifications and bidding sheet for proposed barrack building at Sandy Hook Proving Ground, as advertised in Engineering News, are on file at office of Engineering News, New York. Bids are asked until Feb 11.

YORK, PA.—It is reported that the County Commissioners have awarded the following contracts for repairing and rebuilding the county jail: Construction, DEAN & HAVENS, Olean, N. Y., $75,328; cell work, VAN DORN IRON WORKS CO., Cleveland, Ohio, $58,587.

PHILADELPHIA, PA.—Plans will be prepared by Wilson, Harris & Richards, Archs., Drexel Bldg., for a store and office building, to be built at 17th and Chestnut Sts. for the American Baptist Publication Society. It will be a 7-story structure, measuring 44 x 126 ft., and will cost approximately $300,000.

Plans are being prepared for the 16-story office building to be erected on the site of the old Hazeltine Bldg., at 1418 Chestnut St. Estimated cost, $2,000,000.

PHILADELPHIA, PA.—A 12-story building containing 24 flats, will be erected on the site of the old home of J. Edgar Thomson, at the corner of 18th and Spruce Sts., near Rittenhouse Sq.

J. T. Windrim, Commonwealth Bldg., has prepared plans for a 7-story undertaker's establishment at 1818 Chestnut St., for O. H. Blair Co. Estimated cost, $100,000.

William Steele & Sons, 16th and Arch Sts., will receive sub-bids for a 6-story warehouse, at Fourth and Noble Sts., for the Acme Tea Co. Construction will be of brick and concrete, with slag roof, open plumbing, electric light fixtures, etc. Estimated cost, $225,000.

GEORGE L. SIPPS, 212 South Seventh St., has been awarded the contract for building the 5-story addition to the department store at Seventh and Market Sts., for Lit Bros. Cost, $100,000.

OAKLAND, MD.—The Garrett County Commissioners have invited competitive plans for erection of a court-house. The building will have three stories, and will cost about $150,000.

BALTIMORE, MD.—Owens & Sisco, Continental Bldg., have advised us that plans for terminal warehouse, at Front and Constitution Sts., have not yet been completed. They will be ready for bidders in about two weeks. Noted in Engineering News, Jan. 10.

HENRY SMITH & SONS, South Register St., have been awarded the contract for constructing a 4-story brick and stone restaurant, 40 x 210 ft., at 304 East Baltimore St., for Horn & Horn, 303 East Fayette St. Estimated cost, $100,000.

WASHINGTON, D. C.—We are officially advised that Eidlitz & McKenzie, 1123 Broadway, New York, have prepared plans for a telephone exchange, to be built by Chesapeake & Potomac Telephone Co., and that the plans have been accep... receiving bids has not yet ... Estimated cost, $200,000.

WASHINGTON, D. C.—... New York Ave., contem... office building at 1408 G ...

WASHINGTON, D. C.—... til 2 p. m., Feb. 4, by ... Sewell, Constructing Engr. ... mess hall and dormitory bu... Soldiers' Home, Washington ... tised, Engineering News.)

C. J. CASSIDY & CO., 52... have secured the contract ... the club-house for the Elk... Sts. The building will cos...

Plans have been complete... Hastings, 28 East 41st St., ... administration building for ... stitute. The structure w... stories and will cost about ...

NORFOLK, VA.—GEORGE ... received the contract for e... building for the Monticello ... building will have three ... be 110 x 95 ft.

BRISTOL, VA.—It is repo... that the Interstate Hotel Co. has been ... Dr. George E. Wiley, Pre... Swann, Secy.-Treas., to er... containing 100 rooms and ... steam heat, gas and electr... electric or hydraulic elevator ... $100,000. It is proposed to ... heating plant, electric and ... plants and laundry. Barber & Kluta, ... F. & R. Block, Knoxville, Tenn., are pre... paring plans.

RICHMOND, VA.—C. R. Dewey, Arch., has prepared preliminary plans for a modern $200,000 apartment house, to be built here. The proposed building is to be ten stories high, of stone, brick and terra cotta. It is to have about 240 rooms, 24 5 and 6-room apartments, 24 bachelor apartments, each with two rooms and bath, and 14 stores on the first floor. A large central arcade is provided for, and all rooms will be front rooms. The size of the proposed structure is 75 x 100 ft.

DURHAM, N. C.—We are officially advised that G. W. Kramer, Arch., 1 Madison Ave., New York, is preparing plans for a fireproof brick and stone church for the Main Street Methodist congregation, Durham. The building will be built of granite, will cost about $100,000, and will be situated at corner of Chapel Hill and Duke Sts.

NEWBERRY, S. C.—Bids are asked until Feb. 1, by the Building Committee, for constructing a court-house in Newberry. Frank P. Milburn & Co., City Hall Bldg., Columbia, S. C., are Archs.

MEMPHIS, TENN.—B. A. Appleyard has secured a permit for the new Shelby County court-house, which is to be erected at Second and Third Sts. and Adams and Washington Aves. Estimated cost, $750,000.

CHATTANOOGA, TENN.—It is reported that the aggregate costs of sheds, buildings and passenger terminals of the new central passenger station which the Southern Ry., Queen & Crescent Route, and Central of Georgia Ry. will enter, will be at least $750,000. F. J. Conn is Supt. Bridges and Buildings, Queen & Crescent Route, Lexington, Ky.

LOUISVILLE, KY.—The following bids were received by the Board of Public Works on Jan. 19, for construction of annex to City Hall: Jacob Bornstein, $182,000; Loritz & Frey Planing Mill Co., $177,644; Romans Bros., $173,898; J. N. Struck & Bro., $171,000; J. W. Connor, $164,051. Contract has not yet been awarded.

CLEVELAND, OHIO.—An East End high school will be erected by the Board of Education. Cost, $250,000.

Ralph Hulett, Arch., has let the masonry contract to JOHN SCHRUELTER, 306 Park Bldg., for the building of the New Farmers' & Merchants' Banking Co. Cost, $400,000.

COLUMBUS, OHIO.—Plans are being prepared by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for addition to post-office and court-house. Estimated cost, $400,000.

MARION, IND.—Plans have been ordered by the Kokomo, Marion & Western Traction Co. and the Marion, Bluffton & Eastern Traction Co. for erection of a joint terminal station in this city. The Riggs & Sherman Co., The Nasby, Toledo, Ohio, are Ch. Engrs., M. B. & E. T. Co.

LAFAYETTE, IND.—The Wabash River Traction Co. is preparing to ask for bids for erection of a modern terminal station in this city. James Murdock is interested. M. J. Kehoe is Engr., Fort Wayne, Ind.

KOKOMO, IND.—The County Commissioners have ordered plans and will soon ask for bids for erection and equipment of a hospital at the County Infirmary.

FRENCH LICK, IND.—Plans have been ordered for construction of an annex to the French Lick Hotel, to contain 350 rooms. J. M. Floyd, of Terre Haute, is Arch.

WARREN, IND.—The Trustees of Warren Methodist Episcopal Church will soon ask for bids for the erection and equipment of a Methodist Home for Aged and Infirm Methodists. The estimated cost is $100,000.

CHICAGO, ILL.—An office and warehouse building is being planned for Gunn & Co., 375 Wabash Ave., publishers, by Howard Shaw, 175 Dearborn St. The structure will be at the southeast corner of Prairie Ave. and 23d St. It is to be five stories, 100 x 133 ft., and will cost $120,000. Construction work is to begin in the spring.

Plans are now being prepared for erection of two or three new dormitories for women at the University of Chicago. These buildings will cost about $200,000.

The National Medical College, 553 Wells St., is having plans prepared for a new building, to be erected at Clark St. and North Ave. Designs are being made by H. L. Wheelock, Arch., 100 Randolph St., and the

new building probably will be twelve stories high, covering an area of 100 × 130 ft., and cost in the neighborhood of $400,000. It will be of fireproof construction, having the latest improvements and appliances in all lines.

CHICAGO, ILL.—Mrs. Bertha H. Palmer, 1300 First National Bank Bldg., 164 Dearborn St., has had sketches made and is contemplating the erection of a building to contain stores, shops and offices and in the rear an elaborate restaurant, to be built at the corner of Michigan Ave. and 22d St. The sketches call for a 5-story building, 150 × 161 ft., of fireproof construction, to cost about $250,000. The details will be decided when the owner decides to build it, which is at present uncertain.

Krietenstein Bros., 107 Dearborn St., have acquired 102 × 124 ft. of ground on the west side of Grand Boulevard, south of 35th St., where they will build a fine building to contain 30 apartments. It will be 3-story, with an open court, probably of pressed brick and stone, concrete and structural iron construction, having composition roof, various kinds of hardwood finish, steam heat, marble and mosaic work, wiring for electric light, all the latest conveniences, and will cost about $100,000.

DETROIT, MICH.—Malcomson & Higginbotham, Archts., Moffat Bldg., have plans for an addition to the Central High School building, for the Board of Education. Estimated cost, $250,000.

MILWAUKEE, WIS.—It is reported that the Consolidated Telephone Co., of Buffalo, N. Y., will build four telephone exchanges here, at a cost of $300,000.

GREEN BAY, WIS.—H. C. Koch & Son, Wells Bldg., Milwaukee, have completed plans for a 6-story office building, to be erected for Minahan Bros. The building will be of fireproof construction. Estimated cost, $125,000.

OMAHA, NEB.—John Latenser, Arch., Bee Bldg., is preparing plans for a fireproof 12-story office building, 498 × 142 ft., for the Union Pacific R. R. Co. Estimated cost, $1,000,000. P. L. Huntley is Ch. Engr.

SHERIDAN, WYO.—It is reported that plans are being prepared by the United States for erection of a Federal building at the corner of Gould and Loucks Sts. Cost, $175,000.

SPRINGFIELD, MO.—We are officially advised that the St. Louis & San Francisco R. R. Co. does not intend to have passenger station built at Springfield, as reported. J. F. Hinckley, St. Louis, is Ch. Engr.

KANSAS CITY, MO.—Wilder & Wight, First National Bank Bldg., are reported to have prepared plans for a 2-story bank building, 80 × 90 ft., for the New England Bank. J. F. Downing, Pres., 112 West Ninth St. Estimated cost, $250,000.

ST. LOUIS, MO.—The J. H. BRIGHT BUILDING & CONSTRUCTION CO., Lincoln Trust Bldg., have been awarded the contract by the Monetary Realty Co. for constructing an 18-story bank building at 221 North Broadway, at a cost of $760,000. Eames & Young, Chestnut St., are Archs.

DENVER, COLO.—H. W. SCHLUETER, 264 Dearborn St., Chicago, has secured general contract for constructing an auditorium, to be built at Denver. Estimated cost, $416,000.

A 6-story office building of reinforced concrete is to be erected at the corner of 17th and Champa Sts., early in the spring, at a cost of about $200,000. Among those interested are E. R. Cooper and Charles Boettcher, who recently secured a 99-year lease of 125 × 50 ft. at this corner.

SEATTLE, WASH.—Gus Silbon is to erect a 6-story apartment house on the corner of Broadway and Spruce St., costing from $175,000 to $200,000. The building will have two wings built at right angles; one will be 196 ft. long, and the other 120 ft. The house will be of solid brick construction, and will contain 150 rooms.

SAN FRANCISCO, CAL.—Application has been made to the Board of Public Works by E. McLaughlin for a permit to erect a 7-story reinforced concrete office building on the south side of Mission St., near New Montgomery, at an estimated cost of $110,000.

It is reported that the Sheldon estate will erect an 8-story reinforced concrete building on the corner of Market and First Sts. Estimated cost, $140,000.

The Heyman-Weil Co. will erect a 5-story brick business building on the site of the old Grand Opera House on Mission St., near Third St. Estimated cost, $400,000. Albert Pissis, 307 Sansome St., is Arch.

SAN DIEGO, CAL.—It was announced recently that the San Diego & Arizona R. R. Co. had purchased two blocks of land, bounded by H and I Sts. and Union and Columbia Aves., upon which will be erected one of the largest railway depots in California. The building will be constructed of reinforced concrete, and will cost several hundred thousand dollars. It will have a frontage of 300 ft. on H St., and will be 200 ft. deep. An arcade for the trains to run under will be constructed.

LOS ANGELES, CAL.—The contract for construction of the structural steel for the Federal building at Los Angeles, Cal., has been awarded to the DES MOINES BRIDGE & IRON CO., Des Moines, Iowa. Cost, $120,000.

Plans for the proposed 10-story extension to the Hotel Alexandria are now being prepared by Parkinson & Bergstrom, Braly Block. It will contain 300 rooms and will cost $900,000.

MONTREAL, QUE.—Arrangements are now being completed for the erection of a hotel on Dominion Sq. for the Grand Trunk Pacific Ry. Co. and Grand Trunk Ry. System. Estimated cost, $3,000,000. Peers Davidson, of Davidson & Wainwright, Attorneys, Montreal, is interested.

VANCOUVER, B. C.—The Canadian Pacific Ry. Co. announces plans are being prepared for alterations, additions and extensions to the Hotel Vancouver, which will cost $200,000, work to be commenced in the spring. Hayter Reid is Supt. of Hotels, Montreal, Que.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

MELROSE, MASS.—The contract for furnishing the city with c.-i. pipe, ranging in size from 4 to 14 ins., has been awarded to F. A. HOUDLETTE & SON, 93 Broad St., Boston, Mass.

NEWBURYPORT, MASS.—We are officially advised that the city will lay about two miles of 6 to 14-in. water pipe, with new gates and hydrants. The contract for furnishing pipe has been awarded to M. J. DRUMMOND & CO., 182 Broadway, N. Y., at $33.80 per ton. Coffin & Thorpe, Boston, Mass., are Engrs.

YONKERS, N. Y.—Bids are asked by Board of Water Commissioners until 8 p. m., Feb. 7, for furnishing and erecting boiler plant. Bids also are asked at the same time for furnishing and delivering c.-i. pipe. John J. Devitt is Pres. Bd. of Water Comrs. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. of Water Supply, Gas and Electricity, until 2 p. m., Feb. 1, for furnishing and delivering c.-i. water pipe, branch pipe and special castings.

ASBURY PARK, N. J.—Bids are asked by Department of Water and Sewers until noon, Feb. 2, for furnishing all material and drilling one artesian well of eight inches internal diameter throughout to a depth of from 1,040 to 1,100 ft. John L. Coffin is Supt., Dept. Water and Sewers.

ASBURY PARK, N. J.—The date for receiving bids for erecting one pump, complete, capable of delivering 2,500,000 gallons per 24 hours against a pressure of 75 lbs., has been changed from Jan. 28 to Feb. 4. (Advertised, Engineering News.)

GARWOOD, N. J.—It is reported that the Middlesex Water Co. has purchased a site near this place for constructing a reservoir.

READING, PA.—A permit has been granted for constructing a 2,000,000-gallon filter plant on South Mountain. The Water Department has asked the City Council for an appropriation for building the plant and introducing new distributing mains in the city. Emil L. Nuebling is Supt. and Engr., Water Dept.

WASHINGTON, D. C.—Bids are asked by the Commissioners, D. C., until noon, Feb. 9, for furnishing c.-i. water pipe specials. (Advertised, Engineering News.)

NORTON, VA.—The CLEAR CREEK WATER CO., Big Stone Gap, Va., has been awarded franchise for constructing water supply system. J. L. Lyon is Mayor.

ARLINGTON, GA.—Bids are asked by the Mayor and Town Council until 8 p. m., Feb. 5, for the sale of $25,000 of 5% waterworks and electric light bonds. J. O. McNeil is Clk., Town Council.

PENSACOLA, FLA.—The City Council has authorized the Board of Trustees to negotiate for the sale of bonds amounting to $450,000. A water-works plant is to be built or purchased at a cost not exceeding $250,000. $100,000 is to be used for additional sewerage, and $100,000 for street paving. Frank Reilly is Chn. Finance Com. L. E. Thornton is City Engr.

PINEVILLE, LA.—The ORLEANS ENGINEERING CO., New Orleans, La., has been awarded contract for constructing waterworks. D. F. Huddle is Mayor.

LIMA, OHIO.—Bids were opened Jan. 15 for furnishing and laying about 2,300 ft. water conduit. The Stone Construction Co., Lima, was lowest bidder on steel pipe at $3.00 per lin. ft. Christ. Geiger, Lima, was lowest bidder on c.-i. pipe at $9,599. Edward King is Ch. Engr. Water-Works Dept.

BOONVILLE, IND.—John H. Wilke, Drainage Comr., has awarded contract to GEORGE TAYLOR, R. F. D. No 20, Chandler, Ind., for constructing a drainage ditch.

CHICAGO, ILL.—Bids are asked by the Department of Public Works, 224 City Hall, until 11 a. m., Jan. 30, for furnishing and delivering at the water-works shops, located at 22d St. and Ashland Ave., 200 1¼-in., 100 1½-in., 60 2-in. and 20 4-in. water meters. William L. O'Connell is Comr. of Pub. Works.

SEYMOUR, ILL.—The Commissioners of Camp Creek Special Drainage District have awarded contract for excavating a dredge ditch to WALL & HANSEN, Lagrange, Ind. The work requires 106,318 cu. yds. of excavating. William D. Earl is Comr.

DECATUR, ILL.—Bids are asked by the Board of Local Improvements until 2 p. m., Feb. 14, for constructing the Prairie Ave. sewerage system and 1,010 ft. of 54-in. cement sewer in the Cantrall St. sewer district. Albert Leach is City Clk. A. B. Alexander is City Engr. (Advertised, Engineering News.)

APPLETON, WIS.—Plans are being prepared by G. W. Sturtevant, Fisher Bldg., Chicago, Ill., for a municipal water-works system in this city. W. H. Holcomb is City Engr.

JUNEAU, WIS.—Contract for furnishing c.-i. pipe has been awarded to THE MASSILLON IRON & STEEL CO., Massillon, Ohio, at $39.60 per ton for 4-in. and at $38.60 per ton for 6 and 8-in. pipe. Contract for constructing 60,000-gallon steel tank will be awarded in about a month.

FORT DODGE, IOWA.—Bids are asked by H. S. Holm, County Audr., until 2 p. m., Feb. 21, for constructing drains and ditches. C. H. Reynolds is City Engr.

DETROIT CITY, MINN.—N. L. MOGSTAD, Audubon, Minn., has been awarded contract for constructing Ditch No. 6. H. S. Dahlen is County Audr.

IVANHOE, MINN.—The contract for constructing Ditch No 10 has been awarded to JOHANSEN BROS., Tyler, Minn. JERRY SHERWOOD, Litchfield, Minn., has been awarded contract for constructing Ditch No. 11. R. H. Sisson is County Audr.

MILACA, MINN.—Bids are asked until Feb. 14 for constructing steel water tank and tower. Rolleff Vaaler is Village Recorder.

ROSEAU, MINN.—JOHN LIND, Badger, Minn., has been awarded contract for constructing Ditch No. 5. G. Bertilrud is County Audr.

ST. PAUL, MINN.—Bids are asked by Board Water-Works until noon, Jan 30, for furnishing water pipe, water gates, c.-i. specials, hydrants, valves and service boxes and brass goods. John Caulfield is Secy. Bd. Water-Works. L. E. Rundlett is City Engr.

CRAWFORD, NEB.—Plans, specifications and bidding sheets for building Pathfinder Dike, North Platte project, are on file at office Engineering News, New York. Bids are asked until Feb. 27. (Advertised, Engineering News.)

SARCOXIE, MO.—Plans and specifications for water-works system are being prepared by Burns & McDonnell, Engrs., Dwight Bldg., Kansas City, Mo.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements until noon, Jan. 30, for sprinkling various streets and public places for one year from Feb. 1. A. J. O'Reilly is Pres. Bd. Pub. Improvements.

SWEET WATER, TEX.—It is reported that the O'Neil Engineering Co., Dallas, Tex., has submitted a proposition to the city to install a water and light plant. Cost, $35,000.

ADA, IND. T.—This city will issue bonds amounting to $40,000 for constructing a new water-works.

HUNTSVILLE, TEX.—Bids are asked by A. T. Randolph, City Secy., for improving the present water-works and constructing a new water-works plant.

SPRINGER, N. MEX.—The Farmers' Development Co. will soon be incorporated with capital of $250,000 or $500,000. The company will be formed for a private irrigation project on the Valdez Ranch, Colfax County, eight miles west of this place. The property consists of 18,000 acres and 10,000 acres will be placed under cultivation. The capitalists backing the company are reported to be M. N. Mikesell, of Pittsburg, Pa., Treas. of the Sanitary Chemical Co.; A. F. Mikesell and I. H. Rosenberger, of Covington, Ohio; Rev. Isaac Frantz, of Pleasant Hill, Ohio; D. G. Wenrick, of Bradford, Ohio, Secy. and Treas. of the German Baptist Insurance Association; J. Wasson, of McComb, Ohio, Cashier of the People's Banking Co.; F. D. Rosenberger, of Leipsic, Ohio, Cashier of the Bank of Leipsic, and I. B. Miller, of Gettysburg, Ohio. The water which it is proposed to use for irrigation purposes will come from the Rayado River.

TACOMA, WASH. — GEORGE MILTON SAVAGE has been awarded contract for constructing water mains in District No 507 at $13,887. Frank L. Davis is City Engr.

PORTLAND, ORE.—The Secretary of the Interior has awarded contract to the EXPANDED METAL & CORRUGATED BAR CO., St. Louis, Mo., for furnishing 1,800,000 lbs. of steel bars for reinforcing concrete in connection with the Tieton Project, Wash., for $38,316.

Bids are asked by the City Water Board until 3 p. m., Feb. 1, for furnishing and delivering c.-i. water pipe and special castings. Frank T. Dodge is Supt. City Water Bd. (Advertised, Engineering News.)

SALT LAKE CITY, UTAH.—It is reported that about nine miles of mains will be constructed in short extensions in this city. Estimated cost, $20,000. Louis C. Kelsey is City Engr.

FORT WILLIAM, ONT.—A. M. Naughton, Secy., advises us that bids have been received for Sec. 3 of the Loch Lomond water supply, consisting of 4,500 ft. tunnel and intake pipe, as follows: Emile Anderson, $197,953; Flanagan & Cameron, $170,711; Gowanlock & Tomkin, $162,258; William Newman, $160,690, and Huston & Jones, $132,070. All are local firms. H. S. Hancock, City Engr., estimated work to cost $150,780. The Board of Commissioners has decided to construct this work by day labor under its engineer.

OTTAWA, ONT.—See under Light and Power Plants.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

FORT EDWARD, N. Y.—A sewerage system will be constructed in this city. Cost, $80,000.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. of the Bronx, until 11 a. m., Jan. 29, for furnishing lumber to the Bureau of Sewers, for constructing receiving basins and appurtenances at various street corners, and for constructing a sewer and appurtenances in Bathgate Ave., from East 188th St. to Pelham Ave., with outlets or branches as may be necessary.

NEW YORK, N. Y.—Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 3 p. m., Feb. 4, for furnishing all labor and material required for constructing sewer and appurtenances in 125th St., between Broadway and Claremont Ave.

ASBURY PARK, N. J.—Specifications for constructing about two miles of pipe sewers are on file at office of Engineering News, New York. Bids are asked until noon, Jan. 28. John L. Coffin is Supt. Dept. Water and Sewers. (Advertised, Engineering News.)

BEVERLY, N. J.—Application has been made to the City Council by J. Erwin Hilpot and associates, of Philadelphia, Pa., for permit to construct a sewerage system in this city. Estimated cost, $43,000.

NEW CASTLE, DEL.—Plans are being prepared by the city for constructing a sewerage and a draining system. Cost, $100,000.

CHARLESTON, W. VA.—Bids are asked until 6 p. m., Feb. 16, for constructing about seven miles of terra cotta pipe, reinforced concrete and brick sewers, ranging in diameter from 8 to 72 ins. Estimated cost, $175,000. E. R. Hood is City Recorder. (Advertised, Engineering News.)

DURHAM, N. C.—The Legislature will be asked permission to vote May 1 on issuing $275,000 bonds for extending sewerage system and constructing an additional sewage disposal plant. Gilbert C. White is City Engr.

CAMBRIDGE, OHIO.—Bids will soon be asked by the Board of Public Works for constructing a sanitary sewer, for which 7,000 ft. 12-in. and 4,000 ft. 8-in pipe will be required. Estimated cost, $25,000. O. M. Hoge is City Engr.

BELLEVUE, OHIO.—It is reported that various city streets are to be paved.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service, until noon, Feb. 17, for constructing 1,900 lin. ft. of 12 and 15-in. pipe sewers, average cut, 13½ ft. Estimated cost, $4,737. C. N. Dannenhower is City Engr.

DAYTON, OHIO.—The T. J. BACKUS CONSTRUCTION CO., of this city, has been awarded contract for laying sanitary sewers in various city streets. Robert E. Kline is City Engr.

FINDLAY, OHIO.—Bids are asked by the Board of Public Service, until noon, Jan. 29, for furnishing material and constructing the Cherry St. sewer from a point 7 ft. east of Central Ave. to the east line of McManness Ave. J. C. Edie is Clk., Bd. Pub. Service. John W. S. Riegle is City Engr.

HAMILTON, OHIO.—New sewers are to be constructed in Park Ave. and West Hamilton St. A. L. Dillon is City Engr.

MASSILLON, OHIO.—It is reported that bids will be asked in the spring for constructing sanitary sewers in Center St. and Woodland Ave. Harold Howland is City Engr.

NEW PHILADELPHIA, OHIO.—Bids will soon be asked by the Board of Public Service for constructing a 10 to 20-in. vitrified-pipe sewer system. Estimated cost, $50,000. George Williams is Secy. Paul R. Murray is Engr.

CROWN POINT, IND.—Plans are being prepared for construction of a complete sewer system in this city.

NEW ALBANY, IND.—The JEFFERSON COUNTY CONSTRUCTION CO. has been awarded contract for constructing new sewers in Culberton Ave. S. T. Mann is City Engr.

RUSHVILLE, IND.—It is reported that a local sewerage system will be constructed. Cost, $55,000.

DETROIT, MICH.—Plans are being prepared by Robert H. McCormick, City Engr., for a sewer in the 18th Ward. Cost, $200,000.

CAIRO, ILL.—Bids are asked by the Board of Local Improvements until 10 a. m., Feb. 19, for constructing 9,699 ft. of concrete main sewers and necessary appurtenances. Wilbur B. Thistlewood is City Engr. (Advertised, Engineering News.)

JACKSONVILLE, ILL.—The contract for constructing the West Edgmon St. sewer has been awarded to JOAQUIN VASCONCELLOS, at 48½ cts. per ft. Five other bids were received.

KANKAKEE, ILL.—McMULLEN & MANN have been awarded contract for construction of sewers in East and Schuyler Aves.

PANA, ILL.—The City Council on Jan. 16 granted petition for extending the sewerage system through West Pana. Work will be commenced in May.

RACINE, WIS.—ANDREW THOMPSON has been awarded contract for constructing sewer and water system in 16th St. P. H. Connolly is City Engr.

WEST ALLIS, WIS.—Fred. Schneider, City Engr., has prepared plans for constructing a septic sewer system. Cost, $100,000.

LARNED, KAN.—A new sewer system is to be constructed in the business section of this city. W. R. Rolan, of McPherson, Kan., is Engr.

ARGENTA, ARK.—The NICK PEAY CONSTRUCTION CO., Little Rock, Ark., has been awarded contract for constructing sewer system in this city, for $64,400. The O'Neil Engineering Co., Dallas, Tex., bid $65,600, and Edward Wiegel, Little Rock, bid $68,500. W. C. Faucette is Pres. Bd. Pub. Wks.

SHAWNEE, OKLA.—A sanitary sewer system is to be constructed in this city. Cost, $165,000.

TACOMA, WASH.—The contract for constructing the South I St. sewer, in District No. 159, has been awarded to B. W. KIBLER, at $9,210.

SAN DIEGO, CAL.—It is reported that new sewers will be constructed. Estimated cost, $139,000. G. A. D'Hemecourt is City Engr.

SAN FRANCISOO, CAL.—The Board of Public Works has received bids for constructing sewers in 45th St., 36th St., Adeline St., San Pablo Ave. and the main lake extension sewer from the following contractors: James A. McMahon & Co., John Geary, Williams & Belser, Atlantic, Gulf & Pacific Co., Dunleavy & Lynch, Contra Costa Construction Co., Michael Murphy, C. D. Vincent, William Heafy and Cotton Bros. & Co. Thomas P. Woodward is City Engr.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

ALBANY, N. Y.—Bids have been received for removing street dirt from Muiderry Bros., Albany, at $12,400, or 78 cts. per cu. yd., and from John C. Wasserbach, $11,900, or 70 cts. per cu. yd. Isidore Wachsman is Clk. Bd. of Contract and Supply. Walter E. Mellus is City Engr.

HARRISBURG, PA.—A garbage disposal plant will be constructed in this city. J. Sheeskey is Chn. Special Com., appointed by the City Council to secure information. M. B. Cowden is City Engr.

WASHINGTON, D. C.—I. T. Brown, New York, was low bidder for collecting ashes and garbage, at $71,000 for collecting ashes once a week and $20,000 for collecting garbage.

ADRIAN, MICH.—Bids are asked until March 1, for removing garbage from within the corporate limits of the city, for one year from April 1. John Mawdsley is City Clk.

STOCKTON, CAL.—It is reported that a garbage crematory will be constructed. Newton Rutherford is City Clk. R. C. Tumelty is City Engr.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

FRANKLIN, (New London post-office), CONN.—The contract for constructing 3,000 ft. of gravel road, with telford base, has been awarded to WILLIAM B. WILCOX, Norwich, Conn.

CORNING, N. Y.—Bids are asked by the Board of Public Works until noon, Feb. 28, for 17,705 sq. yds. of brick pavement with cement curbs and gutters. J. T. Hall is Clk. Bd. Pub. Wks. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. of the Bronx, until 11 a. m., Jan. 29, for regulating, paving, grading, etc., various streets in the Borough of the Bronx.

The lowest bid opened Jan. 10 by Louis F. Haffen, Pres. Boro. of the Bronx, for regulating, etc., Bainbridge Ave., from Mosholu Parkway to Woodlawn Road, was submitted by C. Schneider, Morris Ave. and 167th St., at $5,066.

ROCHESTER, N. Y.—It is reported that the Board of Contract and Supply has awarded contracts for paving with asphalt Tacoma St. to WHITMORE, RAUBER & VICINUS, 279 South Ave., at $4,701, and to H. B. HOOKER & SON, Wilder Bldg., for paving Miller St. with brick, at $13,401. Edwin A. Fisher is City Engr.

AUBURN, N. Y.—Bids were received Jan. 15 by J. Walter Ackerman, City Engr., for paving in Genesee St. The Warner-Quinlan Co., 438 South Salina St., Syracuse, N. Y., was low bidder for asphalt paving with Medina block, brick included, as follows: Mack block, with Auburn grey limestone curbing, $75,056; with Medina sandstone curbing, $74,006; with Berea sandstone curbing, $74,456; Metropolitan block, with Auburn grey limestone curbing, $75,056; with Medina sandstone curbing, $74,096; with Berea sandstone curbing, $74,456; Pittsburg-Buffalo block, with Auburn grey limestone curbing, $74,846; with Medina sandstone curbing, $73,886; with Berea limestone curbing, $74,246. Brayer Bros. were low bidders for asphalt paving with Medina block, brick not included, as follows: With Auburn grey limestone curbing, $51,755; Medina sandstone curbing, $50,795, and with Berea sandstone curbing, $50,555. Bids were also submitted by the Barber Asphalt Paving Co., 114 Liberty St., New York.

BUFFALO, N. Y.—The GERMAN ROCK ASPHALT & CEMENT CO., 305 D. S. Morgan Bldg., Buffalo, has been awarded contract for asphalting and repairing 66,415 sq. yds. of streets and roads. The contract is for three years at 15 cts. per sq. yd. for first year, 17 cts. for second year, and 18½ cts. the third year, beginning July 1. Thomas W. Kennedy is Deputy Street Comr.

NEW YORK, N. Y.—Bids are asked by Joseph Bermel, Pres. Boro. of Queens, until Jan. 31 for regulating, grading, etc., sidewalks on various streets in the Borough of Queens.

Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until Feb. 6 for regulating and paving with asphalt pavement on concrete foundation, various streets, and for regulating, grading, etc., sidewalks on various streets in the Borough of Brooklyn.

ALBANY, N. Y.—The following bids were received Jan. 21 by the Board of Contract and Supply, Albany: For the improvement of Teunis St., from Second to Third Aves., paving with vitrified blocks, etc.: John Doyle, Albany, $6,145; Edward F. Dillon, Albany, $6,309; Michael F. Dollard, Albany, $6,319; T. Henry Dumary, Albany, $6,146; Mulderry Bros., Albany, $5,829. For improvement of South Lansing St., from Broadway to Franklin St., paving with vitrified blocks, etc.: John Doyle, $10,824; Edward F. Dillon, $11,063; Michael F. Dollard, $10,997; T. Henry Dumary, $10,409; Mulderry Bros., $10,712. For furnishing ¾ and ½-in. trap-rock for the Bureau of Parks: Jacob E. Conklin, Rockland, N. Y., $1.25 and $1.50 per cu. yd. For furnishing gravel for Bureau of Parks: Jas. A. DeGroat, $1.50 per cu. yd.

The Board will advertise shortly for bids for the improvement of Elk St., from Quail St. to North Lake Ave., and for the improvement of Ontario St., from Central to Livingston Ave. Isidore Wachsman is Clerk of the Board. Walter E. Mellus is City Engr.

NEWBURGH, N. Y.—Bids are asked until noon, Feb. 18, for paving and improving portion of North Water St., Leroy Pl. and Lander St. with vitrified block, asphalt block or Warren's bitulithic pavement. D. J. Coutant is City Clk. Everett Garrison is City Engr. (Advertised, Engineering News.)

BELVIDERE, N. J.—The Warren County Board of Freeholders has appropriated $26,000 for proposed new macadam road in Harmony Township.

CAMDEN, N. J.—Bids are asked by the Board of Chosen Freeholders until 11 a. m., Feb. 13, for constructing gravel road from Berlin to Milford. J. J. Albertson is County Engr. Plans, specifications and bidding sheets are on file at office of Engineering News, New York. (Advertised, Engineering News.)

WASHINGTON, D. C.—John Callahan, Vice-Pres. and Gen. Mgr. of the Norfolk & Washington Steamboat Co., has awarded to MARTIN McNAMARA, of this city, contract for constructing a standard asphalt block driveway and sidewalk at the new entrance to the offices, foot of Seventh St., S. W. Mr. McNamara was also awarded contract for constructing a similar driveway and sidewalk at the entrances to the offices, foot of Boston St., Norfolk, Va.

CLIFTON FORGE, VA.—It is reported that the important streets of this city will be paved with vitrified brick.

ROANOKE, VA.—C. MARKLEY has been awarded contract for paving Salem Ave., Jefferson, Church and Commerce Sts., at $62,952. W. B. Bates is City Engr.

DURHAM, N. C.—The question will be brought before the Legislature for permission to vote May 1 on issuing $275,000 bonds for constructing streets in this city, and for $300,000 bonds for roads in Durham County. Gilbert C. White is City Engr.

LAGRANGE, GA.—The CHATTANOOGA PAVING & CONSTRUCTION CO. has been awarded contract for paving at about $75,000.

JACKSONVILLE, FLA.—JOHN N. C. STOCKTON, of this city, has contract for paving various streets here. Philip Prioleau is City Engr.

NEW ORLEANS, LA.—Bids are asked until 1 p. m., Jan 28, for constructing subsurface drains, culverts, curbs and gutter bottoms and sidewalks on Milan St. from St. Charles Ave. to South Franklin St. Charles R. Kennedy is Comptroller. W. J. Hardee is City Engr.

KNOXVILLE, TENN.—BORCHES & CO., has been awarded contract for laying about 5,000 sq. yds. of brick paving for the Southern Railway Co. around freight depot and office buildings.

CINCINNATI, OHIO.—Bids are asked by the County Commissioners until noon, Feb. 15, for repairing State Road, between corporation line of Cleves and a point two miles east in Miami Township. W. H. Blair is Pres. Bd. County Comrs.

Bids are asked by Board of Public Service until Feb. 2 for macadamizing Rolston Ave.

Bids are also asked until noon, Feb. 7, for paving 1,900 cu. yds. and curbing on Stanley Ave. Estimated cost, $28,843.

Edward S. Gleason, 1906 Highland Ave., was lowest bidder for paving with granite blocks 4,730 sq. yds. on Highland Ave. Nicholas Ruebel, 1926 Harrison Ave. was lowest bidder for paving with brick 1,910 sq. yds. on Trade St.

DAYTON, OHIO.—The BARBER ASPHALT CO. has been awarded contract for paving various streets in this city. Robert E. Kline is City Engr.

MARIETTA, OHIO.—The City Council has decided to have various city streets paved during the coming season.

INDIANAPOLIS, IND.—Bids are asked by the Board of Commissioners until noon, Feb. 4, for constructing gravel or stone roads in the county. Stephen P. Corboy is County Audr.

WINCHESTER, IND.—Bids are asked by the County Commissioners until 1 p. m., Feb. 5, for paving in Washington, White River and Wayne Townships. Total length of paving is 51,820 ft. Mack Pogue is County Audr.

BRAZIL, IND.—Bids are asked by the County Commissioners until 10 a. m., Feb. 7, for constructing 11,910 ft. of gravel road in Posey Township.

Bids also are asked until 11.30 a. m., Feb. 7, for constructing 12,760 ft. of gravel road in Sugar Ridge Township. James L. Burns is County Audr.

GREENCASTLE, IND.—Bids are asked by the County Commissioners until Feb. 4 for improving 6,957 ft. of macadamized road in Jefferson Township. C. C. Hurst is County Audr.

KNOX, IND.—Bids are asked by the County Commissioners until Feb. 4 for improving with macadam and gravel 13,200 ft. of roads in Railroad Township. Total estimated cost $5,714. L. E. Ransbottom is County Audr.

PETERSBURG, IND.—Bids are asked by the County Commissioners until 2 p. m., Feb. 5, for constructing 23,168 ft. of gravel roads. F. R. Bilderback is County Audr.

Bids are also asked until Feb. 12 for constructing eight miles of gravel road in Madison Township.

SPENCER, IND.—Bids are asked by the County Commissioners until noon, Feb. 4, for constructing 2¾ miles of gravel road in Morgan Township. George O. Milten is County Audr.

VINCENNES, IND.—Bids are asked by the County Commissioners until 2 p. m., Feb. 7, for constructing 6,733 ft. of gravel road in Vincennes Township. John T. Scott is County Audr.

Contract for improving Locust St. has been awarded to EDWARD PENNINGTON.

ADRIAN, MICH.—The City Council has decided to have various city streets paved with asphalt. James Blair is City Engr.

CENTRALIA, ILL.—The Board of Local Improvements has decided to have eleven blocks of city streets paved.

DECATUR, ILL.—Bids will be asked about the last of March for 13,000 sq. yds. of brick paving on South Oakland Ave. and West Macon St. A. B. Alexander is City Engr.

MACOMB, ILL.—This city contemplates constructing 11,700 sq. yds. of double course brick paving, with 6,600 lin. ft. sandstone curbing, and 40 lin. ft. wooden curbing. Estimated cost, $22,826. F. G. McClellan is City Clerk.

MANKATO, MINN.—It is reported that several business and residence streets are to be paved with tar macadam. J. R. Thompson is City Engr.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements until Feb. 8 for improving 52 alleys. Charles M. Talbert is C. E., Bd. Pub. Improvements.

TULSA, IND. T.—Bids are asked by W. D. Abbott, City Recdr., until noon, Feb. 15, for paving several streets in this city. (Advertised, Engineering News.)

EL PASO, TEX.—It is reported that the contract for new paving in this city has been awarded to the TEXAS BITULITHIC CO.

SUNNYSIDE, WASH.—THOMAS DINGLE, of this city, has been awarded contract for constructing ten miles of roadbed near here.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

LAWRENCE, MASS.—It is reported that B. W. PITMAN has been awarded the contract to erect a dyeing plant for the American Woolen Co., 116 Ames Bldg., Boston.

LYNN, MASS.—Wheeler & Betton, Archs., 59 Exchange St., have prepared plans for a shoe factory to be built here by a syndicate headed by E. E. Strout, 319 Union St., Lynn. Plans provide for an 8-story brick factory, to contain 500,000 ft. of floor space, a steam and electrical plant, also of brick, and 3,256 windows, gas and electric fixtures, flat tar and gravel roof. The factory will be built in the shape of a staple, in sections of the following dimensions: Two sections, 250x50 ft. each, 300x50, 250x50 and 200x50 ft. The power-house will be 171x50 ft.

WORCESTER, MASS.—The Massachusetts Machine Shop, Inc., has taken a lease of the first floor of the industrial building at 100 Beacon St., and will occupy the premises for a general metal grinding business. The company is a recently organized Massachusetts corporation, and has a capital stock of $25,000. Its officers are: Henry W. Knights, Pres., Boston; Charles A. Whitehknacht, Vice-Pres. and Gen. Mgr., and Arthur A. Knights, Boston, Treas.

PAWTUCKET, R. I.—Jules De Surmont & Son, of Torcoing, France, will establish a branch which is to be built in Woonsocket. The company will manufacture French knit yarn.

BRISTOL, CONN.—We are officially advised that contract for constructing 2-story factory for the H. C. Thompson Clock Co., Bristol, has been awarded to SPERRY & SELLERS, New Haven.

NEW YORK, N. Y.—Application has been made by the Interborough-Metropolitan Co. to close a portion of Ninth Ave. and 218th St. The company plans to construct a railroad repair plant to cost about $2,000,000. George H. Fegram is Ch. Engr., 21 Park Row, New York.

AVERILLPARK, N. Y.—The stockholders of the Faith Knitting Co. contemplate rebuilding the mill at Averillpark, which was recently destroyed by fire. Resolutions were adopted to have plans for a new and up-to-date mill built on the site and to advertise for bids for the construction of such a mill. It was decided that if it was found that the actual figures of the cost of construction do not exceed the estimates submitted by more than 10 per cent. the mill should be rebuilt.

NIAGARA FALLS, N. Y.—The Canadian Steel Nut & Bolt Co. has purchased site and plant of the Gerner Ice Cream Freezing Mfg. Co., at the North End. This company will immediately occupy, enlarge and equip the plant and install three gangs of workmen. The same company has bought the old plant of the Ramapo Iron & Steel Co. on the Canadian side of the river. The City of Niagara Falls has pledged itself to proceed rapidly with the construction of sewers in Sugar St. to the corner of Lockport Ave., to serve the plant on the American side and the houses for operatives which are to be erected adjoining the works.

It is reported that the Titanium Co., a concern backed by New York capitalists, which recently purchased four acres of land at the North End of Niagara Falls for a new plant, will commence building within a short time. The New York Central & Hudson River R. R. Co. proposes to begin work on its industrial line at the North End early in the spring.

TRENTON, N. J.—LEWIS LAWTON & SON, Broad St. Bank Bldg., have contract to construct an addition to a pottery plant for Thomas Maddock Sons Co., Perry St. The building will be 100x125 ft. Estimated cost, $80,000.

ATLANTIC CITY, N. J.—The Atlantic Ice & Coal Co., 416 North Indiana Ave., will start work at once on an ice manufacturing plant to be of brick, having one story, and costing $40,000.

FORT HANCOCK, N. J.—Bids are asked until 3 p. m., Feb. 18, by the Commanding Officer at this post for erecting machine shop, power-house, carpenter, plumbing and paint shops at the Sandy Hook Proving Grounds. Plans, specifications and bidding sheet are on file at office of Engineering News, New York. (Advertised, Engineering News.)

Bids are asked until 3 p. m., Feb. 25, by the Commanding Officer for installing metal and wood-working machinery and electric motors at the Sandy Hook Proving Grounds.

PHILADELPHIA, PA.—Plans are being prepared by Watson & Huckel, 1211 Walnut St., for constructing a factory on North 17th St. for H. D. Dougherty & Co. The structure will be constructed of brick and reinforced concrete. New equipment will be installed.

J. F. McCLOSKEY, 211 New St., has secured the contract for constructing an ice manufacturing plant at Wayne Ave. and Downton St. for the Wayne Ice Co.

The Standard Roller Beating Co. will add two buildings to its plant, one 50x233 ft., the other 50x60 ft. The entire power plant will have a capacity of 2,000 HP. Estimated cost, $200,000.

PHILADELPHIA, PA.—The CHARLES McCAUL CO., 10 North Eleventh St., has been awarded contract for constructing an office, packing plant and abattoir at 30th and Market Sts. for the D. B. Martin Co.

Miller Bros. Co., 330 Market St., will erect a shirt factory at 1200-1206 Spring Garden St. The building will be constructed of brick with slag roof, open[illegible]mbing, electric light fixtures, etc.

Heacock & Hokanson, Archs., [illegible] Bailey Bldg., are preparing plans for a [illegible]dition to a factory at Frankford, Phila., for the Miller Lock Co. The ste[illegible] five stories and will be buil[illegible] will have brick. New equipment will be installed.

PITTSBURG, PA.—The co[illegible] has been awarded to GEORGE HOG[illegible] for a $250,000 factory for th[illegible] Braddock. & Supply Co., at Liberty A[illegible]sburg Gaps [illegible]d 13th St.

EMAUS, PA.—ROBERT [illegible] ATHERN, Commonwealth Bldg., Alle[illegible] Pa., has been awarded the contract [illegible] silk mill for D. G. Derry. The build[illegible] will be five stories high and will be con[illegible]d of brick. New equipment will be insta[illegible]

COLUMBIA, PA.—Plans are [illegible]R prepared by William P. Erisman, 11[illegible]rth Queen St., Lancaster, Pa., for an ad[illegible]ion to stove factory for the Keeley Stove [illegible]rks. Foundry equipment will be insta[illegible]

WASHINGTON, D. C.—[illegible] L. PARSONS, 13th St. and Pennsyl[illegible] Ave., has secured contract for constru[illegible] an addition to cracker factory at 40[illegible] St. for the Havenner Baking Co.

MANCHESTER, VA.—It is [illegible]ported that the Union Stove Co., capitali[illegible]t $100,000, will erect a plant here to ma[illegible]facture air-tight heaters, etc.

MARTINSVILLE, VA.—[illegible] Roanoke Knitting Mills Co. is estab[illegible]ing branch factories at Loray, Martinsville [illegible]d Pulaski, with a total equipment of [illegible]450 machines. Half-hose and misses' [illegible]ribbed goods will be manufactured.

FRONT ROYAL, VA.—It is reported that the Brown & Root Co., 167 Ro[illegible] St., New York, N. Y., has purchased the old Strickler distillery and will build abattoir and cold-storage plant.

CHARLOTTE, N. C.—The Mecklenburg Mfg. Co. has been incorporated here with a capital stock of $250,000, to manufacture cotton yarns and cloth. William Coleman, Thomas H. Watson and Robert L. Tate are incorporators.

MONROE, N. C.—The Icemorelee Cotton Mills Co. contemplates erecting a new mill here, to be equipped with all modern machinery and appliances.

CORNELIUS, N. C.—J. B. Cornelius, J. R. Withers, W. R. Pott, C. A. [illegible]herrill and others have incorporated the Gem Yarn Mills Co. at Cornelius, with a capitalization of $75,000, to build a cotton yarn mill here.

LAWRENCEVILLE, GA.—Lawrenceville Oil & Mfg. Co. contemplates installing equipment for the manufacture of mattresses and comforts. C. M. Todd is Pres.

FRANKLIN, LA.—It is reported that William P. Minckler will establish a plant here for the manufacture of concrete hollow blocks.

LEXINGTON, KY.—It is reported that the Standard Tobacco Co., of Carlisle, Ky., will establish plant at Lexington. L. D. Young is Pres.

CINCINNATI, OHIO.—A company has been organized here for the purpose of erecting a new plant for the manufacture of ice cream, to cost about $200,000, at 1325 Main St. M. and S. Weil of the Banner Baking Co., are interested.

BAY CITY, MICH.—A plant for the manufacture of boats will be erected by the Bay City Boat Manufactory, which is incorporated with a capital stock of $100,000. The incorporators are L. J. Weatherwax and others.

DETROIT, MICH.—Baxter & O'Dell, Archs., 1024 Hammond Bldg., have prepared plans and are ready to take figures for a millwright shop for the American Car & Foundry Co., corner Ferry Ave. and Russell St. The building is to be three-story and basement, 40x80 ft., of brick, having Redford limestone trimmings, fireproof, mill construction, composition roof, structural iron, electric freight elevator, electric lighting, hard plaster, etc. W. R. Mason, 445 Ferry Ave. East, is Mgr. General Offices, Lincoln Trust Bldg., St. Louis; New York Office, 25 Broad St.

GRAND RAPIDS, MICH.—The American Land Plaster Co. on Jan. 11 awarded the contract for a new mill to CHARLES HOERTZ & SON. The products will be used chiefly for making glass. Estimated cost, $100,000.

CHICAGO, ILL.—William Harley, Jr., Arch., 125 La Salle St., has let general contract to WILLIAM GOETZINGER for constructing a factory building for the Domestic Plating Works, 34 West Washington St.

NEILLSVILLE, WIS.—L. H. Howard, Arch., is preparing plans for a $11,000 machine shop for Howard & Seit, of Neillsville.

JEFFERSON, WIS.—The Copeland & Ryder Co., shoe manufacturers, will double the capacity of its plant this year. Julius Heimerl, Arch., Jefferson, Wis., will have charge of the plans, which will call for a new building to cost $45,000. A complete set of shoemaking machinery will be advertised for.

MILWAUKEE, WIS.—The Novelty Dye Works are planning to build a $10,000 building on Broadway and Biddle Sts. for factory and dye houses.

FOND DU LAC, WIS.—It is reported that Mathias Dries is preparing plans for a bakery and business block, which he will erect on North Main St., Fond du Lac, at a cost of $12,000.

DES MOINES, IOWA.—The Standard Safe & Lock Co. will erect a factory to manufacture burglar and fireproof safes, vaults, locks, etc. W. C. Hutton, F. C. Waterbury, R. W. Waterbury and C. L. Bowen are incorporators.

MASON CITY, IOWA.—The Lehigh Portland Cement Co., of Allentown, Pa., has purchased land here on which a plant is to be built at a cost of $1,500,000.

NEW BRIGHTON, MINN.—It has been announced that the Armour Packing Co., 58 Second Ave., North, Minneapolis, has con-

pleted plans for erection of a plant for the manufacture of refrigerator cars. The plant is estimated to cost $2,000,000, and it will be erected at New Brighton on a tract recently purchased by the company for its packing plant. E. Egan is Local Mgr.

OMAHA.—A 6-story building, 90 × 120 ft., to be erected on the Tenth St. viaduct, will be erected by the Rock Island Plow Co., Rock Island. Cost, $75,000.

LOUISIANA, MO.—It is reported that a new plant for the manufacture of ice will be erected by the Brown Fuel & Ice Co. Estimated cost, $35,000.

ST. LOUIS, MO.—I. S. Taylor, Arch., 318 North Eighth St., has let contract to J. A. McCARTER, Macon, Mo., for a shoe factory building for the Hamilton-Brown Shoe Co., Twelfth and Washington Sts., St. Louis. Estimated cost, $75,000.

FORDYCE, ARK.—Sparkman Lumber & Ice Co., Inc., incorporated with $65,000 capital stock, will operate lumber plant with a daily capacity of 75,000 ft. and 20-ton ice plant. A planing mill, 90x100 ft., with extension shed, trams, etc., will be erected. About $5,000 will be expended in building and equipment. L. Sparkman, of Lester, Ark., is Pres.; V. L. Webb., Treas. and Mgr., Charles Rhodes, Engr.-in-Charge, and E. A. Sherblorn, Arch., all of Fordyce, Ark.

FELSENTHAL, ARK.—Milkey Bros. will erect sawmill 32x124 ft., equipping for a daily capacity of 50,000 to 60,000 ft. hardwood lumber. T. B. Milkey is Engr.-in-Charge.

BONHAM, TEX.—The directors of the Bonham Cotton Mills are considering the question of making additions to the mill to the extent of $75,000. The improvements probably will be made within a short time, as the demand for the product of the factory amply justifies it, the manager states.

SACRAMENTO, CAL.—The Buffalo Brewing Co., Sacramento, will enlarge its plant and will have a capacity producing 100 tons of ice daily. Cost, $125,000.

TRURO, N. S.—The Dominion Carriage Co. is having plans prepared for a number of new buildings to be erected in the spring. The capital of this company is $250,000.

FORT WILLIAM, ONT.—J. H. Faulkner, Winnipeg, has purchased a site here for a syndicate formed for the purpose of building a plant for manufacturing alcohol from refuse grain. Cost of plant, $200,000.

MORRISBURG, ONT.—J. Wesley Allison, of the Canada Tin Plate & Sheet Steel Co., states new industries in connection with his company will locate here in the spring, and $1,000,000 in buildings and plants will be expended.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

SEA-WALL.—Charleston, S. C.—Bids will be called for soon by Lieut. G. M. Bunker, Q. M., Fort Moultrie, for constructing a sea-wall on Sullivan's Island.

CANAL IMPROVEMENT.—Columbus, O.—Charles E. Perkins, State Engr., advises us that bids will be called for soon for canal improvements to cost $200,000.

RUBBER HOSE.—New York, N. Y.—Bids are asked until 10.30 a. m., Jan. 29, by Francis J. Lantry, Fire Comr., for delivering 3,000 ft. of 3-in. rubber fire hose.

FIRE HYDRANTS.—Washington, D. C.—Bids are asked until noon, March 2, by the District Commissioners, for furnishing fire hydrants. (Advertised, Engineering News.)

WOODEN LAUNCHES.—New York, N. Y.—Bids are asked until noon, Feb. 1, by J. A. Bensel, Comr. of Docks, for building two wooden launches, complete, with all appurtenances.

TUNNELS.—Cambridge, Mass.—The CHAS. R. GOW CO., 79 Milk St., Boston, has been awarded contract for three tunnels under Broad Canal, at cost of $222,500. L. M. Hastings is City Engr.

TUNNEL.—Boston, Mass.—Bids are asked until noon, Feb. 5, by the Boston Transit Commission, B. Leighton Beal, Secy., for constructing entrances and exits for the Washington St. tunnel station, near the Old South Meeting House.

LUMBER.—New York, N. Y.—Bids are asked by J. A. Bensel, Comr. of Docks, until noon, Jan. 29, for furnishing and delivering sawed new yellow pine or Oregon pine lumber, sawed new spruce lumber, sawed new oak lumber and sawed new Oregon pine lumber.

DITCH.—Albert Lea, Minn.—J. W. Dappert, Taylorville, Ill., Engr., advises us that contract for building Judicial Ditch No. 1 will be let probably in February, March or April. Estimated excavation, 1,739,779 cu. yds., at estimated cost of $163,364.

SHIP CANAL.—Montreal, Que.—The Lake Champlain & St. Lawrence Ship Canal Co. has been incorporated, with a capital of $8,000,000, for the purpose of building a ship canal between Montreal and New York. S. H. Ewing, Montreal, is one of the incorporators.

MACHINERY.—Portland, Ore.—The Secretary of the Interior has authorized the Reclamation Service to purchase power equipment to be utilized in the building of the Cold Springs dam, Umatilla Irrigation Project, Oregon, now being constructed by force account under the supervision of the Government engineers.

MONUMENT.—New York, N. Y.—Bids are asked by Lieut.-Col. W. L. Marshall, Engrs., Secy. Prison Ship Martyrs' Monument Comn., Army Bldg., New York, until noon, Feb. 25, for building a monument to the prison ship martyrs in Fort Greene Park, Brooklyn. McKim, Mead & White, Archs., 160 Fifth Ave., New York. (Advertised, Engineering News.)

TIMBER WHARVES AND DREDGING.—Norfolk, Va.—Bids are asked until 11 a. m., Feb 16, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing timber wharves, removing dry dock cofferdam and dredging at Navy Yard, Norfolk. H. H. Rousseau is Ch. of Bureau. Specifications are on file at office of Engineering News, New York.

WHARF.—New Orleans, La.—Bids were received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., on Jan. 19 for strengthening old and constructing new wharves at the Naval Station. Mordecai T. Endicott, Ch. of Bureau. Bids were as follows: Penn Bridge Co., 312 Bond Bldg., Washington, D. C. (Item 1) $50,638, (Item 2) $2,900; The Snare & Triest Co., 143 Liberty St., New York, N. Y., (1) $63,400, (2) $3,100; Milwaukee Bridge Co., Milwaukee, Wis., (1) $63,400, (2) $3,700.

LUMBER.—Vallejo, Cal.—Bids were opened Jan. 8 at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for lumber, for delivery at the Mare Island Navy Yard, Cal.: (a) 38,000 ft. 400 round piles, 80 to 100 ft. in length; (b) 400,000 ft. B. M. No. 1 Douglas fir, 12 × 12-in., and 14 × 14-in., as follows: American Lumber Mfg. Co., Pittsburg, (a) $15,750; Colvin Cheatham Co., New York, (b) $11,400; A. S. Carman, Vallejo, Cal., (a) $17,375; Southard & Co., New York (b) $13,160, (a) $12,600.

DREDGING.—New Orleans, La.—Bids are asked by the Sewerage and Water Board until 3 p. m., March 27, for the construction of the Algiers outfall drainage canal. Work will consist of approximately 300,000 cu. yds. of excavation, the construction of a concrete by-pass at Drainage Pumping Station No. 8, and a trestle over the canal on the line of the New Orleans, Fort Jackson & Grand Isle R. R.; all to be let in one contract. George G. Earl, Gen. Supt., 602 Carondelet St. (Advertised, Engineering News.)

PROJECTILES.—Washington, D. C.—Bids were opened Jan. 9 at the office of the Bureau of Ordnance, Navy Department, Washington, D. C., for shell, as follows: (a) 60,000 3-in. 50-caliber forged steel common shell; (b) 20,000 same, as alternate; (c) 25,000 3-in. 50-caliber machine steel target shell: U. S. Rapid Fire Gun & Powder Co., Derby, Conn., (c) $1,645; delivery, 500 in four months, 1,000 in five months, 2,000 per month thereafter. Bethlehem Steel Co., South Bethlehem, Pa., (a) $2.50 each; commence delivery in 120 days; 3,500 per month; (b) $2.55; same delivery; (c) $2.24 90 days; 3,500 per month. E. W. Bliss Co., Brooklyn, (a), (b) and (c) $2.94 each; 120 days; 500 per week thereafter. American & British Mfg. Co., Bridgeport, Conn., (a) $2.45; 90 days; 750 per week; (b) $2.49; 90 days; 500 per week; (c) $1.85; 120 days; 500 per week.

SUBWAY.—Pittsburg, Pa.—E. K. Morse, Ch. Engr. of the Pittsburg Subway Co., advises us that ordinance for projected subway is now before Council and that nothing will be done until this is passed and accepted. The Pittsburg Subway Co. was chartered last spring to build a tunnel in this city beginning at Smithfield St. and Oliver Ave., running along Oliver Ave. to Liberty St., along Liberty to Ferry, along Ferry to Third Ave., along Third Ave. to Smithfield, along Smithfield to the place of beginning at Oliver Ave., or one mile in all. The capital is $50,000 and the officers are as follows: President, Horace F. Baker, Pittsburg. Directors, Coleman E. Andel, Edwin K. Morse, Pittsburg; Hugh H. Lyon, Avalon; Harrison M. Williamson, Allegheny. The application for the charter was filed Dec. 20, 1905. The street railway and subway commission decided after the application was filed that the dimensions of the tunnel to be constructed should be filed before a charter was granted. The applicants complied with this demand in Feb., 1906.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

INVESTIGATION STATION.—Hawaii.—Bids are asked until 3 p. m., Feb. 1, by James Knox Taylor, Superv. Arch., for constructing leprosy investigation station at Molokai, Hawaii. (Advertised, Engineering News.)

FREEZING PLANT.—Ketchikan, Alaska.—The New England Fish Co., 24 T Wharf, Boston, and at Vancouver, B. C., has purchased 40 acres here and will erect a large freezing plant and storage warehouse for the halibut trade.

LUMBER.—Panama.—David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., has awarded contracts on lumber for which bids were received Jan. 18, as follows: ENSIGN LUMBER CO., Jacksonville, Fla., 1,600,000 ft. B. M., $42,880; LONG BELL LUMBER CO., Kansas City, Mo., 1,000,000 ft. B. M., $25,350.

EXPLOSIVES.—Panama.—Requisitions have been received by the Isthmian Canal Commission, Washington, D. C., from Panama, calling for explosives, as follows: 400,000 lbs. saltpeter dynamite, 45% 150,000 lbs., 60%; 50,000 lbs. 75%, to be in 10-lb. cartons; 300,000 lbs. black powder, put up in 25-lb. cans; 40,000 electric exploders, and 10,000 ft. insulating tape.

ROOFING, ETC.—Panama.—David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., has awarded to the UNITED STATES STEEL PRODUCTS EXPORT CO., New York, contract for furnishing 60,000 sheets corrugated galvanized-steel roofing, 30x96 ins., and 30,000 lin. ft. galvanized steel ridge roll, 24 in. wide, at $32,041. Also for 100,000 yds. wire screening, 36 in. wide, to the NEW FREEDOM WIRE CLOTH CO., New Freedom, Pa., at $42,540.

ENGINEERING SUPPLIES.—Panama.—Requisitions have been received from Panama by the Isthmian Canal Commission, Washington, D. C., for a quantity of engineering supplies, and specifications for the same are being prepared and will appear in a few days. Items of especial interest are: About 30,000 ft. of hose, water, air and steam; and 6,000 air hose tubes, 22 ins. long; 60,000 lbs. colored cotton waste; 150,000 hewn cross-ties, 7 ins. × 9 ins. × 8½ ft., with an alternate on the same number of ties 7 ins. × 9 ins. × 9 ft.; 60 sets switch ties, No. 7 frogs; 40 sets switch ties, No. 9 frogs; 50,000 ft. 6-in. drain tile, and 10,000 gals. damar varnish.

CRANES, ETC.—Panama.—Bids were opened Jan. 18, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for three single-trolley electric cranes, two of the 20-ton 3-motor type, and one of the 10-ton 3-motor type. Bids were: Case Mfg. Co., Columbus, Ohio, $15,400, 180-210 days; Manning, Maxwell & Moore, 85 Liberty St., New York, $13,639, 140-168 days; Niles-Bement-Pond Co., 111 Broadway, New York, $12,890, 200 days; Morgan Engineering Co., Alliance, Ohio., $12,545, 120-150 days. Also for one non-condensing engine, 350 I. HP., with one engine type revolving field generator, 200 KW., as follows: General Electric Co., Schenectady, N. Y. $11,770, 120-160 days; Westinghouse Electric Co., Pittsburg, $11,462, no time stated; A. L. Ide & Sons, 11 Broadway, New York, engine only, $6,350, 120 days.

LUMBER.—Panama.—Bids were received at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for 2,600,000 ft. B. M. of lumber of various sizes. Bids were as follows: Acme Lumber Co., New Orleans, La., $77,740, 120 days; A. S. Bacon & Sons, Savannah, Ga., $77,370, 70-150 days; Continental Lumber Co., Houston, Tex., $85,800, 75-100 days; Dixon Lumber Co., Savannah, Ga., $75,400, 75 days; G. Elias & Bros., Buffalo, N. Y., $77,400, 30-90 days; Ensign Lumber Co., Jacksonville, Fla., $70,330, 90-120 days; Wm. D. Gill & Son, Baltimore, $82,940, 120-180 days; W. R. Grace & Co., New York. (a) $93,860, 160-230 days, (b) $80,080, 90-150 days; Long Bell Lumber Co., Kansas City, Mo., $71,350, 90-120 days; Wm. D. Wheelwright, Portland, Ore., $69,550; Panama Lumber & Trading Co., New Orleans, La., (a) $78,000, 60 days, (b) $76,440; Robt. R. Sizer Co., Jacksonville, Fla., $74,650, 120 days; Southern Saw Mill Co., New Orleans, La., $80,000, 90-110 days; Chicago Lumber & Coal Co., St. Louis, Mo., (a) $71,812, 78-112 days, (b) $69,212; Frank Waterhouse & Co., Portland, Ore., $76,440, 90-140 days.

ENGINEERING SUPPLIES.—Panama.—Bids were opened Jan. 18, at the office of the Isthmian Canal Commission, Washington, D. C., for the following: 60,000 sheets corrugated galvanized steel roofing and 30,000 lin. ft. galvanized steel ridge roll; Handian-Buck Mfg. Co., 210 North Third St., St. Louis, Mo., roofing only, $57,611, 60 days; Stauffer, Eshleman & Co., Ltd., New Orleans, $49,374, foreign material, 30 days; Youngstown Sheet & Tube Co., Youngstown, Ohio, $54,348, 45-75 days; United States Steel Products Export Co., 21 State St., New York, $52,041, 75-125 days; Southern Export Co., New Orleans, $63,891, 30-90 days. Also 100,000 yds. wire screening, 36 ins. wide, as follows: Clinton Wire Cloth Co., Clinton, Mass., $46,750, $52,750, 80-224 days; New Jersey Wire Cloth Co., Trenton, N. J., $47,000, 40-253 days; Stauffer, Eshleman & Co., Ltd., New Orleans, $56,000, 60 days, foreign material; New Freedom Wire Cloth Co., New Freedom, Pa., $42,540, $49,500, 45-200 days; Southern Exporting Co., New Orleans, $59,000, 30-90 days. 77 mules: Warren Bailey, National Stock Yards, Chicago, Ill., $14,591, delivery at yards; W. R. Grace & Co., New York, $28,875, 90-120 days, delivery, San Francisco; W. C. Sparks, Kansas City, Mo., $15,246, 30 days, delivery, New Orleans.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the worr was advertised in Engineering News.]

*REINFORCING STEEL.—Portland, Ore.—Bids were received, as follows, on Dec. 26 by the U. S. Reclamation Service for reinforcing steel for the Tieton Project, Wash.: (A) Crucible Steel Co. of America, Pittsburg, Pa.; (B) The General Fireproofing Co., Youngstown, Ohio; (C) EXPANDED METAL & CORRUGATED BAR CO., St. Louis, Mo.; (D) American Steel & Wire Co., Pittsburg, Pa.:

		(A)[1]	(B)[2]	(C)[3]	(D)[4]
206,700 lbs.	½" square bars	$0.03½	$0.035367	$0.02275	$0.0215
1,542,000 lbs.	⅝" square bars	0.03	0.032500	0.02125	0.0215
2,030 lbs.	¾" square bars	0.02	0.029250	0.01975	.....
6,300 lbs.	⅞" square bars	0.02	0.029250	0.01925	.....
18,230 lbs.	1" square bars	0.02	0.029250	0.01925	.....
17,500 lbs.	1¼" square bars	0.02	0.027250	0.01875	.....
300 lbs.	1½" square bars	0.02	0.027250	0.01875	.....
	Total	$54,382	$55,218	$38,309	Bid incomplete.

[1]F. O. B. Pittsburg, Pa.
[2]F. O. B. Portland, Ore. This firm also submit a total bid, f. o. b. Youngstown, Ohio, of $41,769.
[3]F. O. B. Youngstown, Ohio, or Pueblo, Colo.
[4]F. O. B. Cleveland, Ohio.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

ICE PLANT.—Colima.—An ice plant is to be installed here by Francisco Indart.

ELECTRIC LIGHT PLANT.—Queretaro.—An electric light plant is being installed here. The new plant will soon be ready for operation.

FLOUR MILL.—Tampico.—A. G. Hudel, of Monterey, will erect a flour mill at Tampico. The erection of a large elevator is also contemplated.

MARKET HOUSE.—Linares, Tamaulipas.—A city market house is to be erected at Linares. CLARENCE LEE and C. BERGIN have been awarded the contract.

IRRIGATION SYSTEM.—Tamazula, Sinaloa.—Juan R. Arci will establish a large system of irrigation near here. He will obtain the water supply from the Sinaloa River.

WAREHOUSE.—Monterey.—A warehouse is to be erected here for J. Cram & Co. The building will cost about $45,000. The contract has been let to MAS BROS., of this city.

SLAUGHTER HOUSE.—Chihuahua.—The State Government is inviting bids for the construction of a slaughter house here which shall cost about $40,000. The plans were prepared by C. Harter, Engr.

IRRIGATION SYSTEM.—Gomez Palacio, Durango.—Amador Cardenas will establish a system of irrigation near here. He has applied to the federal government for authority to use the water of the Nazas River for the purpose.

LUMBER MILLS.—San Juan Bautista, Tabasco.—R. L. Chambers, of Colorado Springs, Colo., and associates, who recently purchased a large tract of mahogany timber in this state, will erect lumber mills to prepare the timber for market.

IRRIGATION SYSTEM.—Montemorelos, Nuevo Leon.—Ildidro Lozano has been granted a concession by the Government of the State of Nuevo Leon to establish a system of irrigation near here. He will obtain the water supply from the Potosi River.

SMELTER.—Guadalajara.—A. H. McKay, of Mexico City, Pres. of the Mercantile Banking Co., is having plans prepared for the proposed smelter which he and his associates intend to erect here. The plant will cost more than $200,000.

ELECTRIC RAILWAY SYSTEM.—Puebla.—The Compania Limitada de Luz y Fuerza Motriz has been organized here with a capital stock of $5,000,000 for the purpose of building and operating an extensive system of electric railway in Puebla.

IRRIGATION SYSTEM.—Rancho Nuevo, Nuevo Leon.—Florencio Cortez is preparing to establish a system of irrigation in the valley of the San Juan River in this district. He has obtained a concession from the state government for the proposed enterprise.

RAILROAD.—Mexico City.—The National R. R. Co. of Mexico will build a branch railroad from Jarita, a station on its main line about 50 miles south of the United States border, to the coal fields northwest of there. The new line will be about 50 miles long.

RAILWAY.—Durango-Mazatlan.—One of the results of the late merger of Mexican railway lines probably will be the resumption of work on the International line from the city of Durango, capital of the state of Durango, to Mazatlan, state of Sinaloa, on the Pacific coast.

SMELTER.—Mazatlan, Sinaloa.—It is reported that W. C. Greene, of New York and Cananea, Mexico, will build a large customs smelter at this place. The work of constructing the plant will be started as soon as the extension of the Southern Pacific line reaches here.

IRRIGATION PLANT.—Victoria.—Carlos Garza Cortina will establish an extensive system of irrigation in this state. He has applied to the Federal Government for a concession to use the water of the Guayalejo River for the purpose. Zeferino Romero will be associated with him in the enterprise.

RAILROAD.—Guanajuato.—Plans are being matured by leading mine owners of this district to build a belt railroad through the district with the view of giving transportation facilities for the different mining properties. Spur lines will be built where necessary to give a mine a connection with the new road.

IRRIGATION.—Coahuila.—A petition has been presented to the Federal Government by Julio Castro, of San Pedro, State of Coahuila, for the use of four cubic meters of water per second from the Nazas River, to irrigate land. The water will be distributed by means of a canal, which will tap the river near the flood gates of the Trasquin cut.

DRAINAGE PROJECT.—Mexico City.—Preparations are being made by Gumesindo Enriquez and associates to drain Lake Lerma. Mr. Enriquez has been granted a concession by the Government to erect the hydraulic works necessary to carry on the work and to use the water of the lake for irrigation purposes during the period that it is being removed.

SEWER SYSTEM.—Mazatlan.—Consul Louis Kaiser reports that SIR WEETMAN PEARSON, the contractor for the new sewer system of Mazatlan, Mexico, is in need of the following supplies: Vitrified pipe, from 6 to 20 ins., to supply a line 12½ miles long; 600 tons of cement; 1,600 meters (5,250 ft.) of 10-in. c.-i. pipe; two steam pumps, must be able to pump 80,000 gallons per hour, and boilers for said pumps.

RAILROAD.—Autlan, Jalisco.—The contract for constructing the first division of the Jalisco Railroad from Autlan to the Ayuquila River will be awarded as soon as the survey for this portion of the line is formally approved by the federal department of communications. The work of locating the remainder of the line will be resumed at once.

WATER-WORKS. — Zacatecas.—The contract for constructing a system of waterworks for the city of Zacatecas has been awarded by Governor Pankhurst to JOHN LEE STARK, an American contractor, who recently completed the installation of a water-works system for the city of Morelia, Michoacan. The water supply for Zacatecas will be obtained by means of wells.

RAILROAD EXTENSIONS.—Mexico City.—It is authoritatively reported that the Federal Government will make a number of important extensions of the Mexican Central Railroad system, of which it recently acquired control. It is said that several new lines will be built to connect the Mexican Central with the National and the Interoceanic railroads, which are also government lines.

SALT REFINING WORKS.—Mexico City.—Fernando Castanon and Alfonso Almada, who recently obtained a concession from the Federal Government for the exploitation of salt deposits upon Maria Madre Island, will install large salt refining works. Under the terms of the concession the parties named are required to pay to the Government, by way of a tax, 50 cents for each ton of salt taken from the island.

CHEMICAL FACTORIES.—Mexico City.—The Federal Government has granted a concession to Roessler & Hasslacher, of Mexico City, for the manufacture of alkaline cyanides of sodium and potassium. This firm proposes to establish a number of these factories in different parts of the republic. More than $200,000 is to be invested in the plant that is to be established here, and each of the other plants will cost about $100,000.

RAILROAD.—La Dicha, Guerrero.—It is announced by George Mitchell, Pres. of the La Dicha & Pacific R. R. Co., that the contract for the ties for the proposed road has been awarded to the LESTER W. DAVID CO., of Seattle Wash., and that the steel rails have been purchased from WILLIAM SAMSON & CO., of Glasgow, Scotland. The road will run from La Dicha to the port of Acapulco, on the Pacific Coast. It will be about 80 miles long.

RAILROAD.—Madera, Chihuahua.—E. C. Hargrave, Gen. Mgr. of the Sierra Madre Land & Lumber Co., states that the railroad which that company is building between Temosachic and Madera (formerly San Pedro Springs) is to be extended in a northwesterly direction from Madera into the pine forests which the company owns. This extension will be about 25 miles long. It will ultimately be extended to Cananea, Sonora, Mr. Hargrave says.

RUBBER MANUFACTURING PLANT.—San Luis Potosi.—The Mexican Rubber Co. will erect a large guayule rubber manufacturing plant in this city. This company recently purchased the holdings of the Coahuila Mining & Smelter Co. for $3,000,000, Mexican money. The properties embraced extensive tracts of guayule land and a rubber factory at Viesca, which was only recently completed. Walter Parker is Gen. Mgr. of the Mexican Rubber Co.

OIL STORAGE TANKS.—Mexico City.—It is stated by E. E. Styner, Gen. Mgr. of the Mexican Central R. R., that the adoption of oil for fuel for the locomotives of that railroad will necessitate the erection of a number of oil storage tanks in addition to those which have been already erected. Work has just been started on the construction of a 60,000-bbl. oil storage tank in Monterey. Storage tanks, each of a capacity of 40,000 bbls., will be erected at Linares, Victoria, Isasi, Hipolito and Concordia.

STREET RAILWAY SYSTEM.—Parral.—The concession for the construction and operation of a street railway system in Parral, which was obtained from the Federal Government by General de la Vega and Manuel Lujan, has been transferred to a company, which has been organized to carry out the provisions of the concession. Rudolfo Valles is president of the company. It is stated that the contract will soon be let for the construction of the system.

ELECTRIC POWER.—El Oro, State of Mexico.—At the recent meeting of the stockholders of El Oro Mining & Railway Co., the announcement was made that replacement of steam by electric power was commenced last February, and has now been applied to all of the machinery of the property, with the exception of one or two underground pumps. The installation of electric plant has resulted in considerable saving in the cost of power. The current is supplied by the Mexican Light & Power Co.

PUBLIC WORKS.—Mexico City.—Jose Ives Limantour, Minister of Finance, has submitted to Congress a bill asking for an appropriation of $24,000,000, which sum is to be used for the following purposes: For completing the harbor improvement work at the ports of Coatzacoalcos and Salina Cruz, $20,000,000; for completing the system of water-works for Mexico City, $2,500,000; for erecting new public school buildings in the Federal District and to purchase sites for same, $1,500,000.

ELECTRIC RAILWAY SYSTEM.—Chihuahua.—A. C. Nash, Gen. Mgr. of the street railway company here, has acquired a concession on behalf of the company from the State Government for the construction of an extensive system of electric street railway here. The present lines of the company will be converted into electric lines, and the system will be extended to cover all of the principal streets of the city and to a number of suburban towns and industrial centers.

IRRIGATION DAM.—Torreon.—Considerable progress has been made by the wealthy planters of the Nazas Valley towards the construction of a gigantic dam across the Nazas River, which is to afford a water supply for irrigating many thousand acres of land. At a recent meeting of the men who are interested in the project plans for the preliminary work on the project were adopted, and a committee was appointed to investigate the question of cost, etc., and report at a general meeting which will be held about the first of the coming year. The dam will be located in the Fernandez Canyon of the river. Carlos Gonzalez, of Torreon, is taking the lead in promoting the enterprise.

MINE EQUIPMENT.—Guanajuato, Gto.—The Republic Mines Co., Ltd., has been organized to develop and equip with machinery a group of mines in the Guanajuato district. The company is organized under the laws of the State of Maine, with a capital stock of $2,000,000, consisting of 400,000 shares at $5 each, full paid and non-assessable. The officers of the company are Frederick C. Corning, Pres.; Robert Mulford, Vice-Pres.; C. Van Rensselaer Cogswell, Secy. and Treas.; A. Bleecker Banks, of Albany; Donald McLean, of New York; M. E. MacDonald, of Guanajuato, and W. Murdock Wiley, of New York, Directors. M. E. MacDonald is manager in Mexico. The offices of the company are at No. 35 Wall St., New York.

FOREIGN CONTRACTS.

OIL LINE.—India.—The NATIONAL TUBE CO., of Pittsburg, Pa., has received a contract from the Burmah (India) Oil Co. for 285 miles of 10-in. steel oil line pipe.

PUMPING PLANT, WATER PIPE.—Natal.—Bids are asked at the Audit Office, Pietermaritzburg, until noon, Feb. 18, for the following work: Contract No. 1—For gas suction plant, engine and pump to be erected near Stanger; Contract No. 2—For the supply and delivery at Stanger of about 2½ miles of 5-in. steel water pipe and 2½ miles of 4-in. and 3-in. cast-iron water pipe with valves, special castings and other pipe fittings. Any informalities in the completion of the form of bid will render it liable to rejection. Specifications and forms of bid may be obtained on application to G. B. Laffan, M. Inst. C. E., Hardy's Chambers, Pietermaritzburg, Engr., on payment of a deposit of $10, which will be returned on receipt of a bona fide bid. Local bids will be called later on for masonry, concrete and pipe laying.

TRADE PUBLICATIONS.

CEMENT.—Universal Portland Cement Co., Chicago and Pittsburg. Paper; 6 × 9 ins.; pp. 72; illustrated.

This catalogue contains many photographs and recommendations of concrete work which has been executed with Universal Portland cement.

CEMENT.—Marquette Cement Manufacturing Co., Chicago. Paper; 10 × 10 ins.; pp. 72; illustrated.

The many concrete buildings erected throughout the Northwest of Marquette cement are described in this catalogue. It also includes several articles on the design and construction of concrete work.

REINFORCED CONCRETE CONSTRUCTION.—American System of Reinforcing for Concrete Construction, Chicago, Ill. Paper; 9½ × 6¾ ins.; pp. 47; illustrated.

The "American" system employs a combination of plain round rods and woven wire fabric, with a special spiral reinforcement for columns. A number of half-tone engravings are given of buildings in which this system has been adopted.

ROOFING.—Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa. Paper. 3½ × 6 ins.; pp. 64; illustrated.

The company publishing this catalogue is manufacturing a fireproof compound composed of asbestos and hydraulic cement which is molded into the form of shingles and plank and used for roofing, sheathing and other purposes where a fireproof construction is desired.

CONCRETE BLOCKS.—The National Stone Manufacturing Co., Minneapolis, Minn. Paper; 9 × 6 ins.; pp. 20; illustrated.

The artificial stone blocks made by this company are cast in sand molds in the same manner as iron castings are made. By a proper moistening of this casting sand it is claimed that a more thorough crystallization takes place in the concrete than occurs in a wooden or metal mold.

PORTABLE WELL-DRILLING MACHINERY.—Crown Drilling Machine Co., Akron, Ohio. Catalogue C. paper; 6¾ × 10 ins.; pp. 63.

"Crown" drilling machines for water, oil and gas well drilling are fully described. These machines are made for drilling wells from 150 to 2,500 ft. deep. The catalogue also contains a full price-list of tools and accessories required in well drilling.

GAS ENGINES AND GAS PRODUCERS.—T. Thompson & Sons Mfg. Co., Beloit, Wis. Paper; 12 × 8 ins.; pp. 28; illustrated.

The Thompson engines are of the horizontal type, with single, tandem and twin-tandem cylinders. The Burger gas producer is of the suction type. The description of the engine is accompanied by numerous illustrations of parts, and there are tables of the properties of gas, etc.

CRUSHING ROLLS.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin 1419; paper; 8 × 10½ ins.; pp. 4; illustrated.

This bulletin describes breaker rolls for crushing coal, rock salt, phosphate rock, etc. They are made with inserted teeth, manganese steel segments and corrugated rollers.

CONCRETE CONSTRUCTION.—The Ferro-Concrete Construction Co., Cincinnati, Ohio. Bulletin No. 2; paper; 10¼ × 7½ ins.; pp. 72; illustrated.

This bulletin is one of a series issued by this company and consists principally of an index of some 90 different works constructed in concrete by the company classifying them under the name, location, kind of work, architect and the number of previous bulletin in which they are described.

ARCHITECTURAL PHOTOGRAPHS.—Frank P. Milburn & Co., Architects, Washington, D. C. Paper; 9¾ × 6¾ ins.; pp. 86; illustrated.

This book gives a number of photographs of buildings which the above firm of architects has either designed or erected. Most of the buildings are in the Southern Atlantic Coast States and are generally of a public nature, such as court-houses, hotels and railroad stations, though a few private residences are among the list.

DIAMOND-POINTED CORE DRILLS.—American Diamond Rock Drill Co., 95 Liberty St., New York City. Catalogue No. 26; paper; 6 × 9¼ ins.; pp. 86; illustrated.

Descriptions of diamond-pointed core drills, manufactured by this company are given, besides records of work done with these drills, as regards speed, cost, etc., when employed in many different classes of work, under varying conditions. Tables of prices, shipping weights, and lists of parts conclude the catalogue. These drills are made for drilling holes from 300 to 6,000 ft. in depth.

CORE DRILLS.—Ingersoll-Rand Co., 11 Broadway, New York City. Catalogue No. 91; paper; 6 × 9 ins.; pp. 62; illustrated.

The Davis "Calyx" diamondless core drill is a prospecting drill producing cores from 1⅝ to 15 ins. in diameter from any depth up to 6,000 ft. It gives a double record, depositing the cuttings successively as they occur and removing the core in convenient lengths. In place of a diamond cutter, a special steel cutter is used. The catalogue gives general dimensions of the different sized machines.

INDUSTRIAL CARS AND TRACKS.—Wonham-Magor Car Works, 29 Broadway, New York City; 6 × 9 ins.; pp. 160; Edition of 1907.

The manufacture of special types of cars for industrial railways, plantation, logging and mining service has become a large industry. The catalogue before us describes a great variety of these cars, as well as cars for contractors' use, skips, coal buckets, light locomotives and materials for portable tracks. The concluding pages contain useful tables for engineers engaged in handling problems of light traffic transportation.

DIAMOND CORE DRILLS.—Sullivan Machinery Co., Railway Exchange, Chicago, Ill. Catalogue No. 55; paper; 6 × 9 ins.; pp. 157; illustrated.

The Sullivan drill is described in this catalogue. The different styles of outfits include hand-power machines, engine-driven machines and electric-driven machines. They are made in stationary and movable form, for depths of 300 to 6,000 ft. The catalogue contains complete estimates of cost of the various outfits suited for different kinds of work, and instructions for selecting an outfit to meet one's requirements. Instructions for setting up and operating the outfit are also given, and price-lists of drills and parts.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 36.

WATER-WORKS.

Mt. Pleasant, Mich.

Sealed proposals for furnishing materials and constructing an extension to the city water plant will be received by the Pres. of Board of Public Works of Mt. Pleasant, Mich., until Wednesday, Feb. 20, at 2 o'clock P. M., as follows: Bid No. 1, for furnishing materials and constructing concrete Head Wall, Head Gate, Conduits, Penstock, Discharge Pit, Tail Race and Power-House. Bid No. 2, for furnishing materials and constructing a Reservoir and Suction Pipe. Bid No. 3, for furnishing materials and constructing the entire work, except water mains, as per plans and specifications on file with the President of said Board and with the Riggs & Sherman Co., Engineers, of Toledo, Ohio. Bids must be accompanied by a certified check of Three Hundred Dollars. City will probably furnish Pump and Water Mains.

The Board reserves the r[illegible] reject any or all bids.

M. DE[illegible]EAUX,
Pres. Board of [illegible]ic Works.
January 21, 1907. 4-2t

PAVING.

N[illegible]h, N. Y.

Sealed proposals will be r[illegible]d at office of City Clerk, in City Hall, [illegible]burgh, New York, until twelve o'clock n[illegible] of Monday, February 18, 1907, for furn[illegible]e all materials for paving and perman[illegible] improving that portion of North Water [illegible] and Leroy place lying between Broad [illegible]t and the west line of Liberty street in[illegible]d city with vitrified block, asphalt block [illegible] Warren's bitulithic pavement.

There is about 10,500 sq. yd[illegible] to be paved, curbstones to be set, catch [illegible]asins, sewer manholes, etc., to be built.

Cash or a certified check for five hundred dollars must accompany each bid. Bidding sheets may be obtained and plans and specifications can be seen at the office of City Engineer, City Hall, Newburgh, N. Y., on and after January 28, 1907.

The Board of Public Works hereby reserves the right to reject any or all proposals and to accept any considered favorable to the city.

Dated Newburgh, N. Y., January 24, 1907.
D. J. COUTANT, City Clerk.
4-2t EVERETT GARRISON, City Engineer.

PAVING.

Newburgh, N. Y.

Sealed proposals will be received at office of City Clerk, in City Hall, Newburgh, New York, until twelve o'clock noon of Monday, February 18, 1907, for furnishing all materials, paving and permanently improving that portion of Lander street lying between Broadway and South street in said city with vitrified block, asphalt block or Warren's bitulithic pavement.

There is about 8,200 sq. yds. to be paved, curbstones to be set, catch basins, sewer manholes, etc., to be built.

Cash or a certified check for five hundred dollars must accompany each bid. Bidding sheets may be obtained and plans and specifications can be seen at the office of City Engineer, City Hall, Newburgh, N. Y., on and after January 28, 1907.

The Board of Public Works hereby reserves the right to reject any or all proposals and to accept any considered favorable to the city.

Dated Newburgh, N. Y., January 24, 1907.
D. J. COUTANT, City Clerk.
4-2t EVERETT GARRISON, City Engineer.

CONCRETE SEWERS.

Cairo, Ill.

Sealed proposals will be received at the office of the Board of Local Improvements of the City of Cairo, Illinois, until 10 o'clock A. M., February 19th, 1907, for the construction of 9,699 feet of concrete main sewers and necessary appurtenances.

A copy of the Plans and Specifications will be sent to any competent bidder upon receipt of a certified check for five dollars as a guarantee for the return of the same, or they may be seen at the office of the City Engineer.

All bids will be accompanied by a certified check for ten per cent. of the amount of such bids as a guarantee of good faith.

The total estimated cost being $80,650.26.

The Board reserves the right to reject any and all bids.

WILBUR B. THISTLEWOOD,
4-4t City Engineer.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., January 22, 1907.—Notice is hereby given that the time for opening proposals for the construction of the Leprosy Investigation Station at Molokai, Hawaii, has been extended from February 1, 1907, to 3 o'clock P M., March 4, 1907. JAMES KNOX TAYLOR, Supervising Architect. 4-2t

SITUATIONS OPEN

WANTED.—A young engineer capable of giving grades and inspecting work under contract and to act as assistant in general municipal practice. Salary $75. Give age, experience and references. Address BOX 185, Thomasville, Ga. 4-2t

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A SECOND-HAND BATCH CONCRETE MIXER

with a loading device, steam engine and boiler, a machine that will mix 10 feet of dry material to a batch. Address

M. J. KANE,
4-2t 9 Wade St., Worcester, Mass.